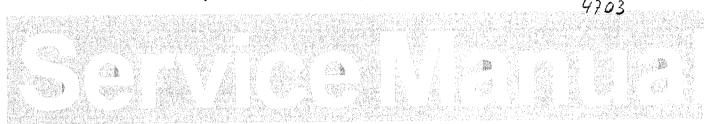
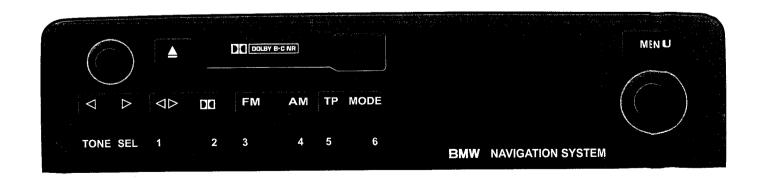


For repair information of the tape deck see Service Manual SCA 4.4 (4822 725 23509)



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GENERAL

The control- and display-unit 22SY405 is part of the BMW system E46. It controls (via K-Bus) the carradio modul 22DC785 (C23 BM), the navigation computer (22SY561) and the CD Changer (optional). Furthermore the system settings can be controlled and the board computer data of the car can be interrogated and displayed.

To get the 22SY405 into operation a minimum of system environment is necessary:

- Power supply (KL30, KL-R, KL58G, KL31)
- A high K-BUS (connect BUS to 12 V via a 10 K pull up resistor)
- The C23 BM for radio / audio functions
- The nav. computer for the display functions (display is driven by the CSI board of 22SY561, signals are sent via NAVBUS)

Because of the complex functionality the description of controls is omitted in this Service Manual. It is recommended to refer to the BMW instructions for use which can be ordered at your local dealer or garage.

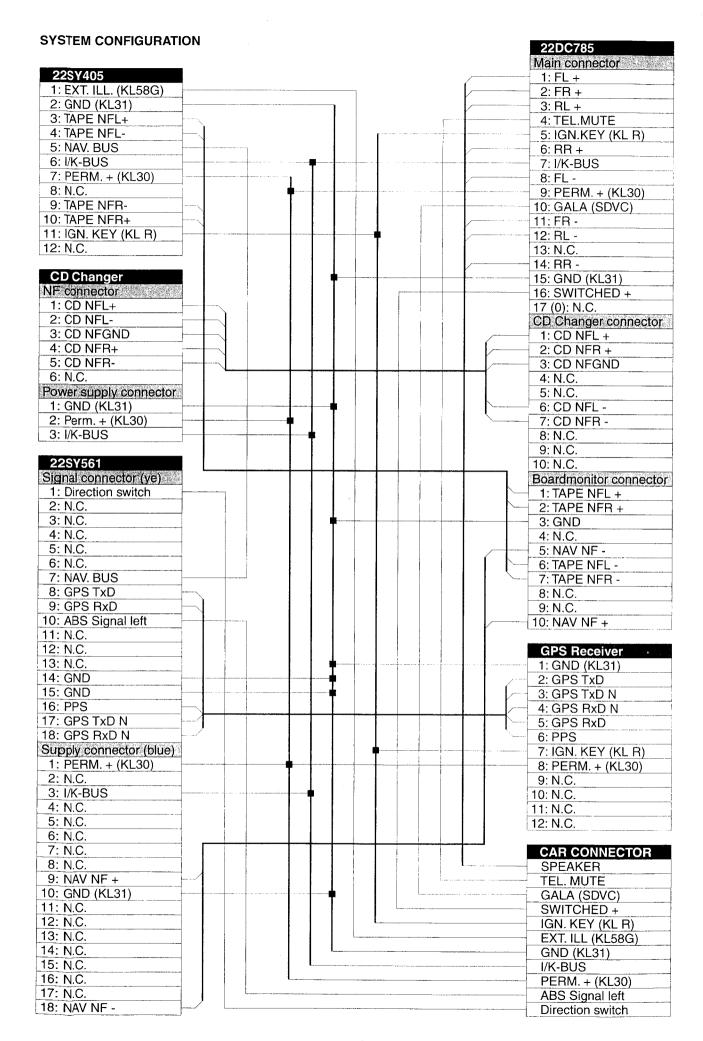
This Service Manual explains the electrical hardware and the mechanics of the modul only. The BUS commands and communication structure can not be verified without special equipment (software and RS232/I-BUS interface).

TECHNICAL DATA

GENERAL	Power Supply	6 V-16 V for max. illumination acc. spec.13.5 V min. for tape deck functions acc. spec.10 V min. display illumination OFF at 17 V display illumination ON again at 16 V tape deck OFF at 10 V
	Quiescent current Playback current	0.1 mA < 1.7 A (peak < 2 A Cass. insert) for max. illum., display heater on, Cass. FFW
	ON/OFF indication	ON: KL R > 6.5 V OFF: KL R < 2.7 V
SCA4.4 TAPE DECK	Number of tracks Tape speed Winding time (C60) Wow & Flutter S/N ratio THD (at 1KHz)	2 x 2 4.75 cm/s < 100 s < 0.3 % > 48 dB DOLBY OFF, METAL > 65 dB DOLBY C, CHROME < 1 %
AF PREAMPLIFIER	Output level Channel separation	3 V _{eff} 45 dB (1KHz)

CONNECTORBLOCK

6 5 4 3 2 1	1: EXT. ILL. (KL58G) 2: GND (KL31) 3: TAPE L+ 4: TAPE L- 5: Nav. BUS 6: K-BUS	7: PERM. + (KL30) 8: N.C. 9: TAPE R- 10: TAPE R+ 11: IGN. KEY (KL R) 12: N.C.
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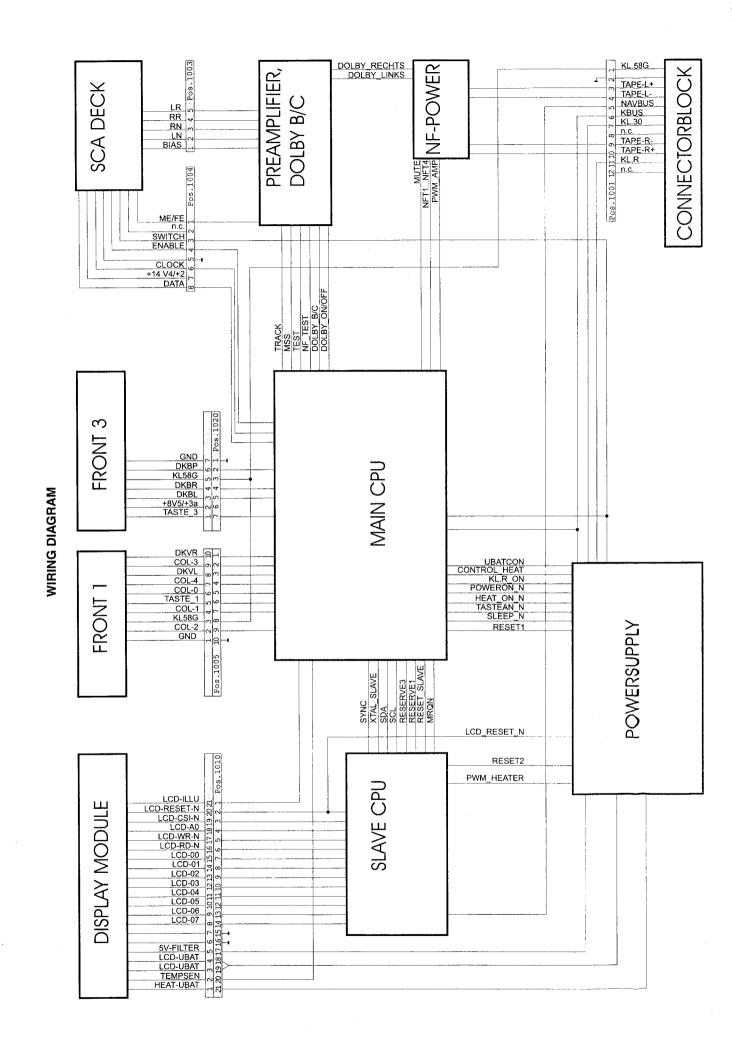
SIGNAL DESCRIPTION

```
+14 V4/+1
                               (M112) Battery voltage filtered
+14 V4/+2
                               (M103) Battery voltage filtered, switched for AF Power, tape deck and 8.5V stabilizer IC
                               (M107) Battery voltage filtered, switched for NAV-BUS and I/K-BUS
+14 V4/+2b
                               (M102) 8.5 V ±5%, max. 250 mA. Supply voltage for AF and optical increment switch.
+8V5/+3a
                               (M100) 5.0 V ±2%, max. 200 mA. Supply voltage for logic IC's and display.
+5V0/+7
5V-FILTER
                               (M804) 5.0 V ±5%, max. 15 mA. Supply voltage for LCD controller interface.
BIAS
                               (M505) Common line of magnetic head (3.3 V DC)
CLOCK
                               (M704) 5.0 V. Tact signal for tape deck, pulses to GND during deck operation.
                               (M306) 5.0 V. Keymatrix scan signal
COL-0
                              (M307) 5.0 V. Keymatrix scan signal
(M308) 5.0 V. Keymatrix scan signal
(M309) 5.0 V. Keymatrix scan signal
(M309) 5.0 V. Keymatrix scan signal
COL-1
COL-2
COL-3
COL-4
                               (M310) 5.0 V. Keymatrix scan signal
CONTROL HEAT
                               (M901) Heater ON/OFF control. Low = heater OFF, High = heater ON
                               (M705) 5.0 V. Data signal for tape deck, pulses to GND during deck operation
DATA
                               (M802) Opt. incr. switch left.
                                                                       Alternating:
DKBL
                                                                                       High.... Low.... High.... High.... a.s.o
DKBR
                               (M801) Opt. incr. switch right.
                                                                       Alternating:
                                                                                       High..... High..... Low..... High..... a.s.o.
                               (M800) Opt. incr. switch push. Low = button pushed
DKBP
DKVL
                               (M312) Mech. incr. switch left.
                                                                       Alternating:
                                                                                       High..... Low..... High
                                                                                                                    a.s.o.
                              (M313) Mech. incr. switch right. Alternating: High..... Low..... High (Trans. Pos.7501, Base) Low = DOLBY B, High = DOLBY C
                               (M313) Mech. incr. switch right.
DKVR
DOLBY_B/C
                              (M400) Dolby level left = 300mV<sub>en</sub> (test tape 200nWb/m, 400Hz) to be aligned with poti 3544 (Trans. Pos.7500, Base) Low = DOLBY ON, High = DOLBY OFF
DOLBY_LINKS
DOLBY_ON/OFF
                               (M401) Dolby level right = 300mV<sub>eff</sub> (test tape 200nWb/m, 400Hz) to be aligned with poti 3543 (M706) Direction control of tape deck interface. Low = µC->Deck, High = Deck->µC. 5 pulses to GND when RESET
DOLBY_RECHTS
ENABLE
                               (M902) Heater ON/OFF switch. Low = Heater ON, High = Heater OFF
(M821) Heater supply. Low (< 0.2 V) = Heater OFF, High (Battery voltage) = Heater ON
HEAT_ON_N
HEAT-UBAT
KBUS
                               (M316) Data BUS on battery voltage level
KL.30
                               (M304) Battery voltage, perm. +
KL.58G
                               (M302) Illumination supply, max. current 180 mA (at 13.5 V)
KL.R
                               (M319) Power supply from ignition key
KL.R_ON
                               (M105) Ignition ON / OFF control (high activ). 3.2 V when ignition ON
LCD_RESET_N
LCD-00...07
                               (M110) Reset signal for LCD controller (min. 1µs low activ). Low < 0.75 V, High > 4.25 V (M809...M816) Control / Display signals for LCD
                               (M806) Low -> LCD-00...07 are control data, High -> LCD-00...07 are display data (M805) Chip select not signal (Low-activ)
LCD-A0
LCD-CSI-N
LCD-ILLU
                               (M818) PWM signal (2050 Hz) for ill. control. Low (<0.8 V) = ill. ON, High (>2.4 V) = ill. OFF. 0-100% in 256 steps
LCD-RD-N
                               (M808) Read signal for LCD Controller (Low activ)
LCD-UBAT
                               (M820) Supply voltage for LCD (Battery voltage)
                               (M807) Write signal for LCD Controller (Low activ)
LCD-WR-N
                               (M501) Left channel, NOR direction (3.3 V DC)
ΙN
                               (M502) Left channel, REV direction (3.3 V DC)
IR
ME/FE
                               (M507) Low = FE, High = ME
                               (IC Pos.7203, Pin 43) I<sup>2</sup>C BUS request line from slave controller (Low activ)
MRQN
MSS
                               (M508) Low = NO modulation on tape, High = modulation on tape
MUTE
                               (Trans. Pos.7402, Base) Preamplifier mute signal. Low (0.0 V) = AF out, High (0.7 V) = AF mutet
NAVBUS
                               (M315) Display data BUS on battery voltage level
NF_TEST
                               (IC Pos.7503, Pins 1+28) PWM reference signal for AF level test
                               (IC Pos.7303, Pins 1-20) With relations digital for amplifying control (IC Pos.7203, Pins 9...12) AF level for amplifying control (IC Pos.7203, Pin 37) Control signal to switch supply voltages +8V5/+3a, HEAT-UBAT, +14V4/+2. Low = voltages ON
NFT1...NFT4
POWERON N
                               (Trans. Pos.7403, Base) PWM signal for continuously amplifying control (M905) PWM signal to enable the heater circuit. Interrupts HEAT_ON_N in case of a hardware malfunction.
PWM_AMP
PWM_HEATER
RESERVE1+3
                               (IC Pos.7203, Pin 19+21) Reserved signal lines between main- and slave-controller (5.0 V level)
RESET_SLAVE
                               (M601) Logic reset signal from main CPU after power interruption. High activ.
                               (M101) Power reset signal for main CPU (min. 10ms high activ). Low < 0.8 V, High > 3.85 V
RESET1
                               (M101) Power reset signal for slave CPU (min. 10ms high activ). Low < 0.8 V, High > 3.85 V
RESET2
                              (M503) Right channel, NOR direction (3.3 V DC)
(M504) Right channel, REV direction (3.3 V DC)
(IC Pos.7203, Pin 39) Clock signal for I<sup>2</sup>C BUS (5.0 V level)
RN
RR
SCL
SDA
                               (IC Pos.7203, Pin 40) Data signal for I2C BUS (5.0 V level)
SLEEP_N
                               (IC Pos.7203, Pin 38) Switch OFF signal (Low activ 3 ms) if KL-R OFF or I/K BUS not activ for 60 s.
SWITCH
                               (M703) Cassette insert pulse. High (11.0 V) = Cassette insert and cassette standby
SYNC
                               (IC Pos.7203, Pin 20) Handshake signal for synchronisation of main- and slave-CPU. High activ when unit starts up.
                               (M314) 1.5 V_{\rm eff} at 235 \Omega (measured with test tape 250 nW/m, 315 Hz)
TAPE-L-
                               (M300) 1.5 V_{\rm eff} at 235 \Omega (measured with test tape 250 nW/m, 315 Hz)
TAPE-L+
TAPE-R-
                               (M317) 1.5 V_{eff} at 235 \Omega (measured with test tape 250 nW/m, 315 Hz)
TAPE-R+
                               (M318) 1.5 V_{eff} at 235 \Omega (measured with test tape 250 nW/m, 315 Hz)
TASTE_1
                               (M311) High (11.5 V) = Eject button released, Low = Eject button pushed
TASTE_3
                               (M803) High (11.5 V) = Menu button released, Low = Menu button pushed
                               (Trans. Pos.7103, Coll.) Event switch ON signal. High = Menu or Eject released, Low = Menu or Eject pushed
TASTEAN_N
                              (M817) Temperature related voltage from display for heater ON/OFF decision. U<sub>zsrc</sub>_3.8 V (Trans. Pos.7502, Base) High (0.7 V) = NF_TEST disabled, Low = NF_TEST enabled (Dolby IC switched to AUX) (M506) Low = REV. direction, High = NOR. direction
TEMPSEN
TEST
TRACK
UBATCON
                               (M108) KL.R control voltage. Over-/undervoltage indication for switch OFF (~1.7V for KL.R=10V, ~2.9V for KL.R=17V)
XTAL_SLAVE
                               (IC Pos.7602, Pin 52) Tact frequency (16.5888 MHz) for main- and slave-CPU (DC ~ 1.4 V)
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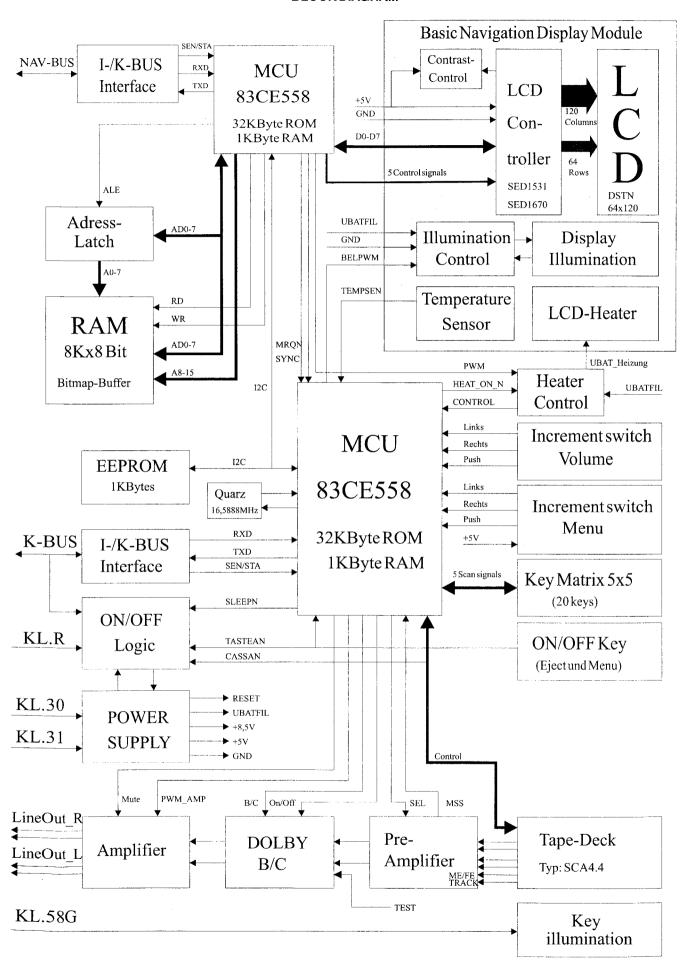
22 SY 405 4

^{*} only for production purposes

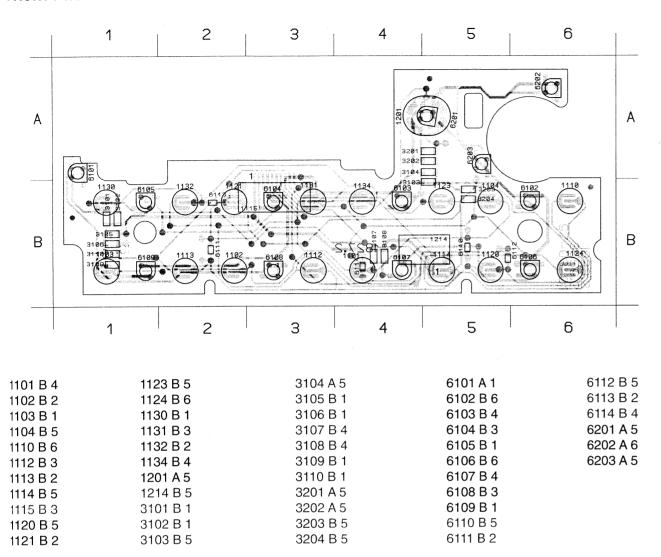




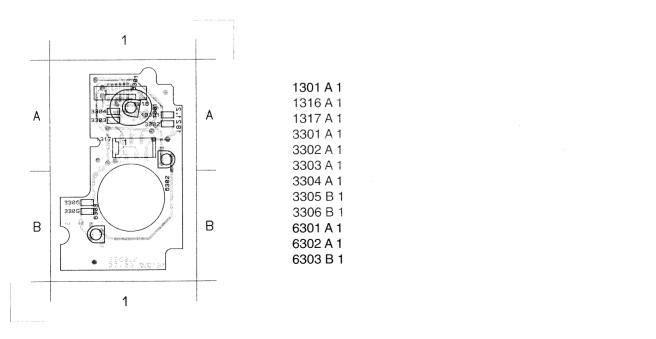
BLOCK DIAGRAM

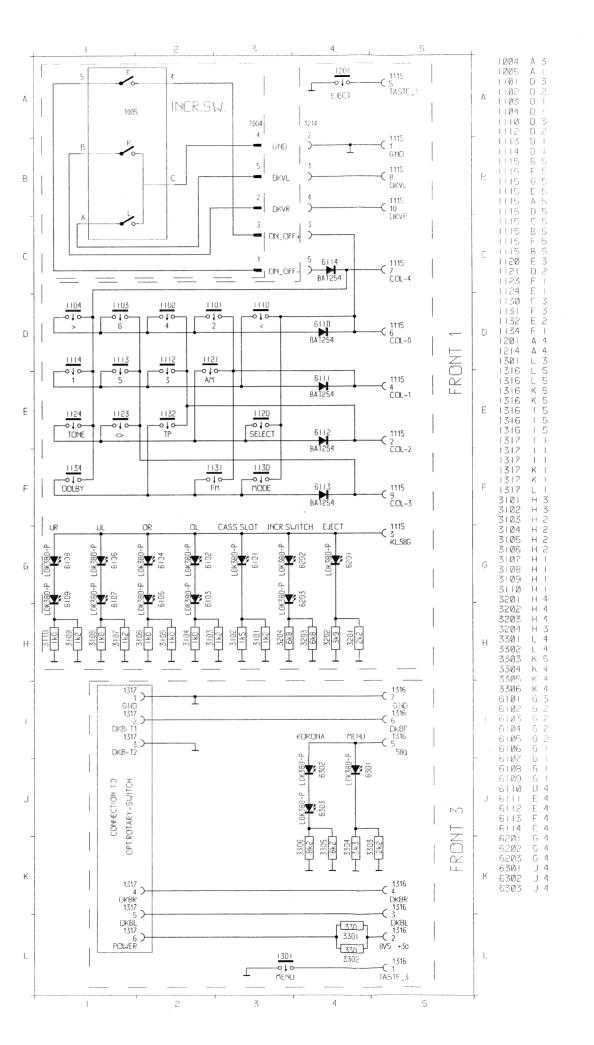


FRONT PWB 1



FRONT PWB 3



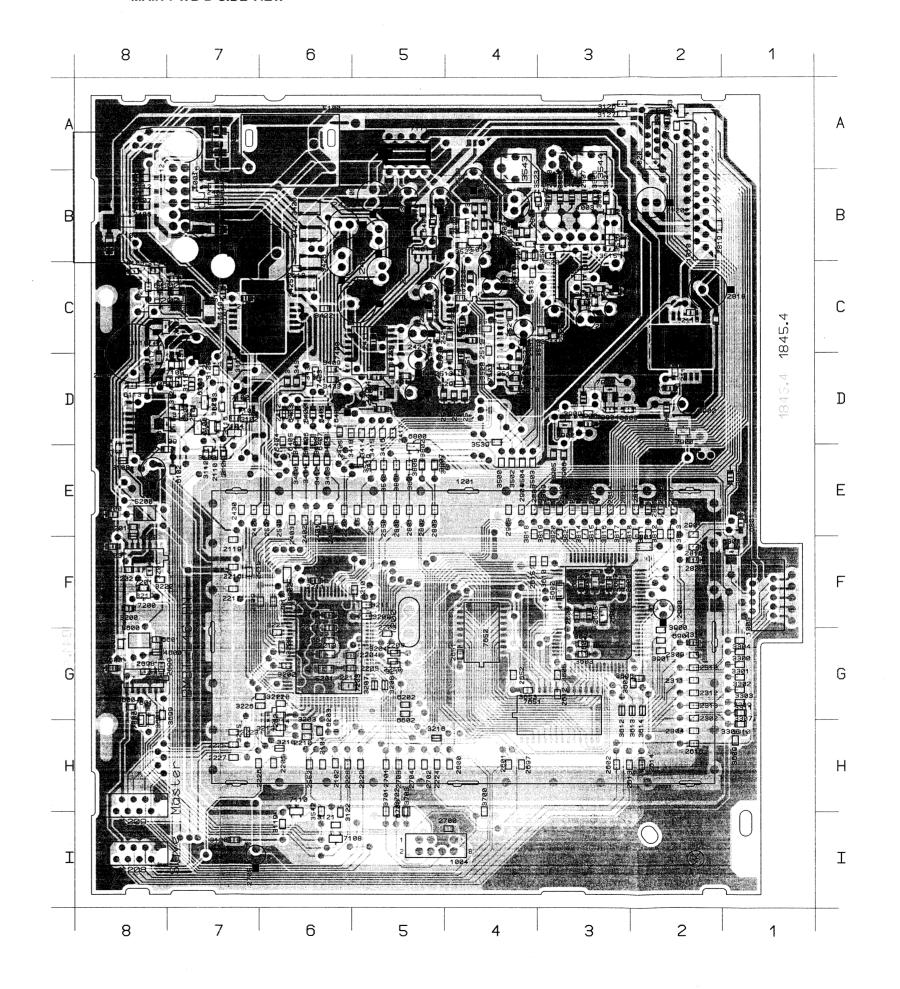


22 SY 405

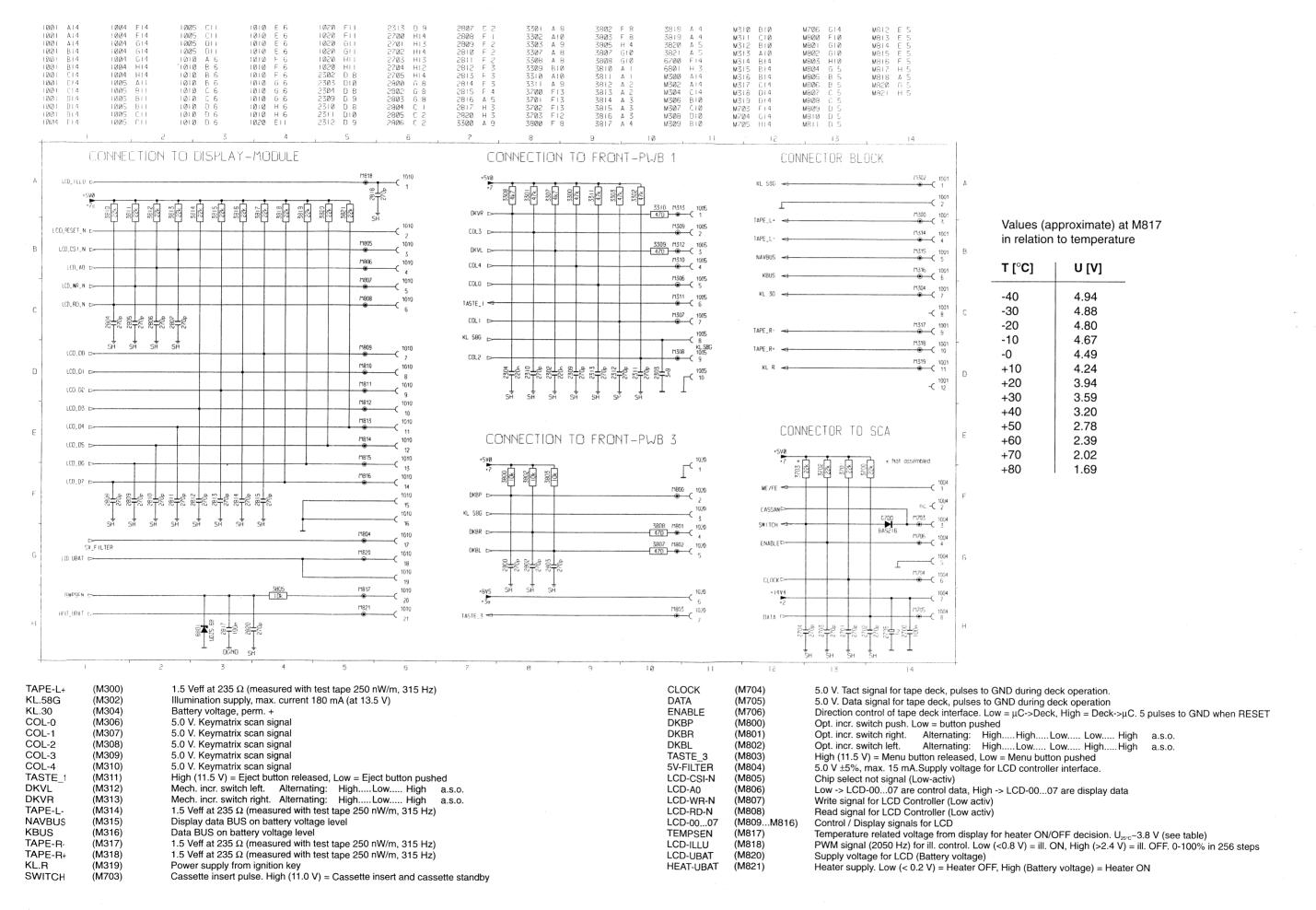
MAIN-PWB A-SIDE VIEW

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					1/1 3/1/2					2106 B 5	2412 D 6	2612 G 3	3125 D 7
						2 1 2		-5500 () (A		2107 E 8	2413 D 6	9613 H 3	3126 A 3
C								7000	С	2108 C 7 2109 F 6	2415 D E	2817 H V 2815 F 1	0127 A V 3128 D 7
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D									D	2115 E S	2426 B 6	3699 G 3	3202 G 3
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I				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-1 '			0 0000	I		2530 C 4	3101 D 7	3405 B 5
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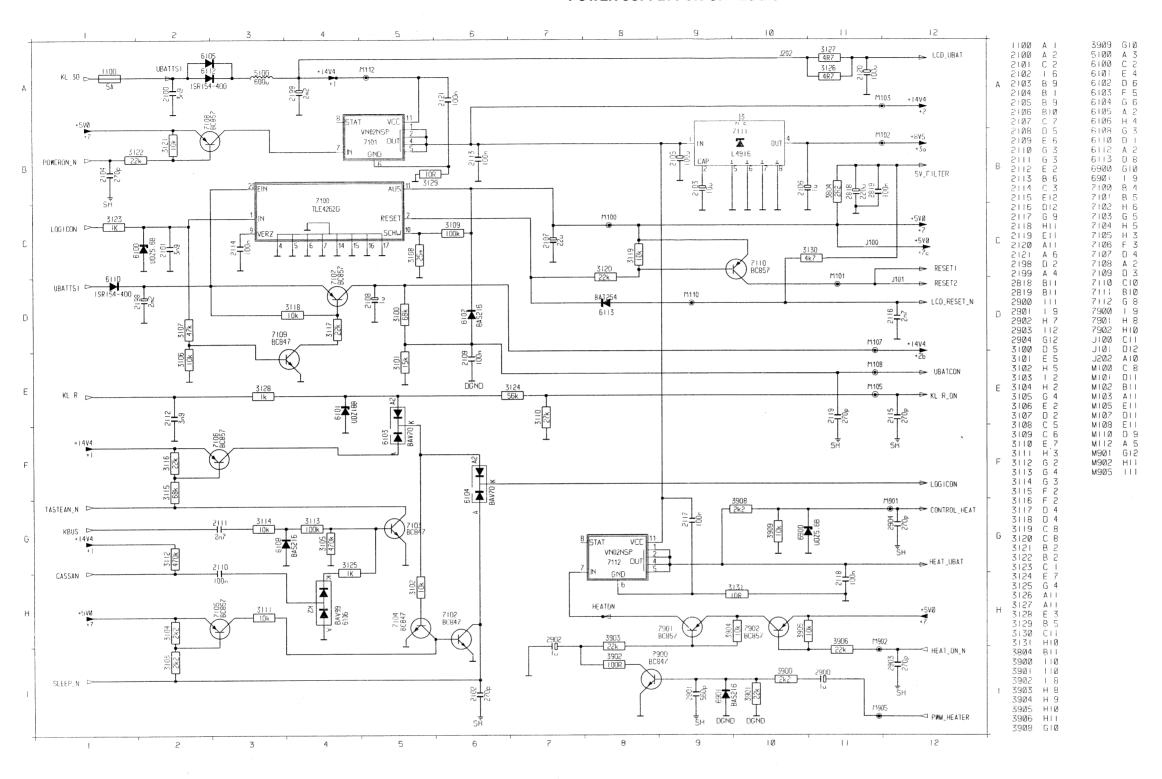
3414 D 5 3415 D 5 3416 D 5 3417 D 5 3418 D 6 3419 E 5 3420 D 5 3421 C 4 3422 C 6 3424 C 5 3425 C 6 3426 C 6 3427 B 6 3428 B 6 3429 D 5 3430 D 6 3431 D 5 3432 D 6 3431 D 5 3432 D 6 3433 D 6 3434 D 6 3500 E 4 3501 B 4 3502 E 4 3503 E 4 3504 E 4 3505 C 3 3506 C 3 3508 B 4	3606 G 2 3607 G 8 3608 G 8 3609 H 1 3610 F 3 3612 G 3 3613 G 2 3653 G 4 3699 G 8 3700 H 4 3701 H 5 3702 H 5 3703 H 5 3800 E 5 3801 E 5 3803 E 5 3804 C 2 3805 E 1 3807 E 5 3808 E 5 3808 E 5 3810 E 2 3811 E 2 3811 E 2 3812 E 2 3813 E 2 3814 E 3 3816 E 3	6400 D 6 6401 D 6 6402 D 6 6403 D 6 6404 D 6 6405 D 6 6406 D 6 6407 D 6 6408 B 5 6600 C 7 6601 G 8 6602 G 5 6700 H 5 6800 E 5 6801 E 1 6900 D 3 6901 G 2 7100 D 8 7101 C 6 7102 D 7 7103 C 7 7104 D 7 7105 D 7 7106 D 7 7107 C 8 7108 I 6 7101 H 6 7111 A 5	AND THE STATE OF T
3428 B 6 3429 D 5 3430 D 6 3431 D 5 3432 D 6 3433 D 6 3434 D 6 3500 E 4 3501 B 4 3502 E 4 3503 E 4 3504 E 4 3505 C 3 3506 C 3 3507 C 3	3703 H 5 3800 E 5 3801 E 5 3802 E 5 3803 E 5 3804 C 2 3805 E 1 3807 E 5 3808 E 5 3810 E 2 3811 E 2 3812 E 2 3813 E 2 3814 E 3 3815 E 3	6800 E 5 6801 E 1 6900 D 3 6901 G 2 7100 D 8 7101 C 6 7102 D 7 7103 C 7 7104 D 7 7105 D 7 7106 D 7 7107 C 8 7108 I 6 7109 D 7 7110 H 6	100 (100 mm) 10
3513 C 4 3514 B 3 3515 B 3 3516 B 3 3517 B 3 3518 B 4 3519 B 4 3520 B 3 3521 C 4 3522 B 4 3523 B 3 3524 B 3 3524 B 3 3525 B 3 3526 B 3 3527 D 4 3528 D 4 3530 D 4 3531 B 4 3532 B 4	3821 E 3 3900 G 2 3901 G 2 3902 D 2 3903 D 3 3904 D 3 3905 E 3 3906 E 3 3908 D 3 4200 E 8 4600 G 8 5100 A 6 5200 E 8 5201 G 6 5202 F 6 5600 G 8 5601 F 2 5602 F 3 6100 D 7	7203 G 6 7400 C 5 7401 B 5 7402 D 5 7403 D 6 7500 B 4 7501 B 4 7502 B 4 7503 C 4 7504 C 3 7600 G 8 7601 G 8 7602 F 3 7603 A 2 7651 G 3 7652 G 4 7900 D 2 7901 D 3 7902 D 3 J100 F 6	は、 ADA ADA ADA ADA ADA ADA ADA ADA ADA ADA
3532 B 4 3533 B 4 3534 B 4 3539 D 4 3540 E 5 3541 E 5 3542 H 6 3543 A 4 3544 A 3 3600 G 8 3601 G 8 3602 G 2 3603 G 3 3604 G 3 3605 G 3	6101 D 7 6102 E 7 6103 D 7 6104 D 7 6105 A 7 6106 D 7 6108 C 8 6110 C 7 6113 D 8 6200 C 7 6201 E 8 6202 G 5 6203 H 6 6301 F 1	J101 H 5 J200 F 7 J201 E 7 J202 A 5 J203 E 4 J204 E 4 J205 E 4 J206 E 4 J300 B 7	AVS 1 1 64 2 AVS 1 1 64 2 AVS 1 1 64 1 FIGURE 10 10 AVS 1 10 1 AVS 11 16 12



CONNECTORS

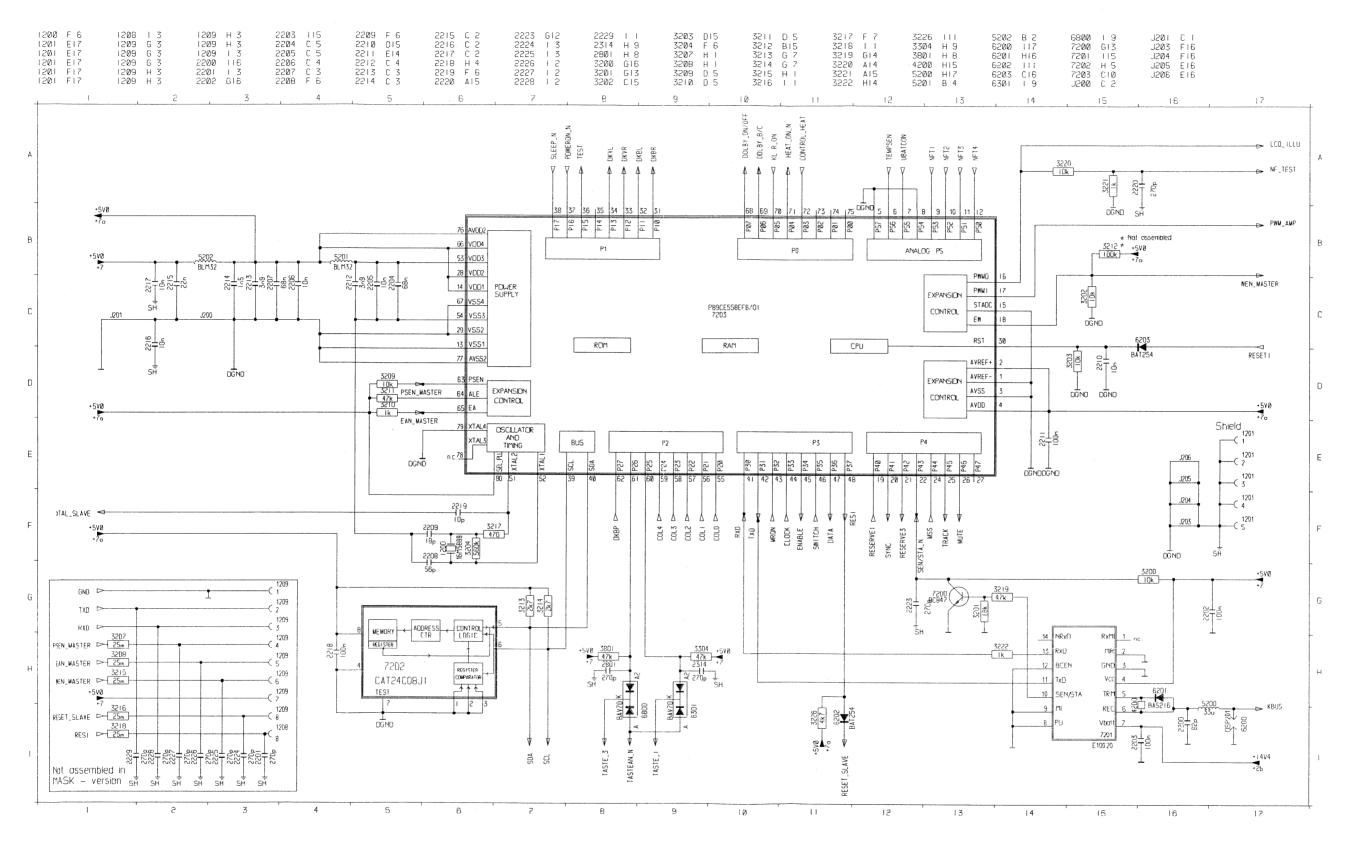


POWER SUPPLY / ON-OFF LOGIC



+5V0/+7	(M100)	5.0 V ±2%, max. 200 mA. Supply voltage for logic IC's and display.
RESET1	(M101)	Power reset signal for main CPU (min. 10ms high activ). Low < 0.8 V, High > 3.85 V
RESET2	(M101)	Power reset signal for slave CPU (min. 10ms high activ). Low < 0.8 V, High > 3.85 V
+8V5/+3a	(M102)	8.5 V ±5%, max. 250 mA. Supply voltage for AF and optical increment switch.
+14 V4/+2	(M103)	Battery voltage filtered, switched for AF Power, tape deck and 8.5V stabilizer IC
KL.R ON	(M105)	Ignition ON / OFF control (high activ). 3.2 V when ignition ON
+14 V4/+2b	(M107)	Battery voltage filtered, switched for NAV-BUS and I/K-BUS.
UBATCON	(M108)	KL.R control voltage. Over-/undervoltage indication for switch OFF (<1.7V for KL.R=10V, >2.9V for KL.R=17V)
LCD_RESET_N	(M110)	Reset signal for LCD controller (min. 1µs low activ). Low < 0.75 V, High > 4.25 V
+14 V4/+1	(M112)	Battery voltage filtered
CONTROL HEAT	(M901)	Heater ON/OFF control. Low = heater OFF, High = heater ON
HEAT ON N	(M902)	Heater ON/OFF switch. Low = Heater ON, High = Heater OFF
PWM HEATER	(M905)	PWM signal to enable the heater circuit. Interrupts HEAT_ON_N in case of a hardware malfunction.
TASTEAN_N	(Trans. Pos.7103, Coll.)	Event switch ON signal. High = Menu or Eject released, Low = Menu or Eject pushed

MASTER PROCESSOR



NFT1...NFT4 (IC Pos.7203, Pins 9...12) AF level for amplifying control
RESERVE1+3 (IC Pos.7203, Pin 19+21) Reserved signal lines between main- and slave-controller (5.0 V level)
Handshake signal for synchronisation of main- and slave-CPU. High ac

(IC Pos.7203, Pin 20)
(IC Pos.7203, Pin 37)
(IC Pos.7203, Pin 37)
(IC Pos.7203, Pin 37)
(IC Pos.7203, Pin 38)

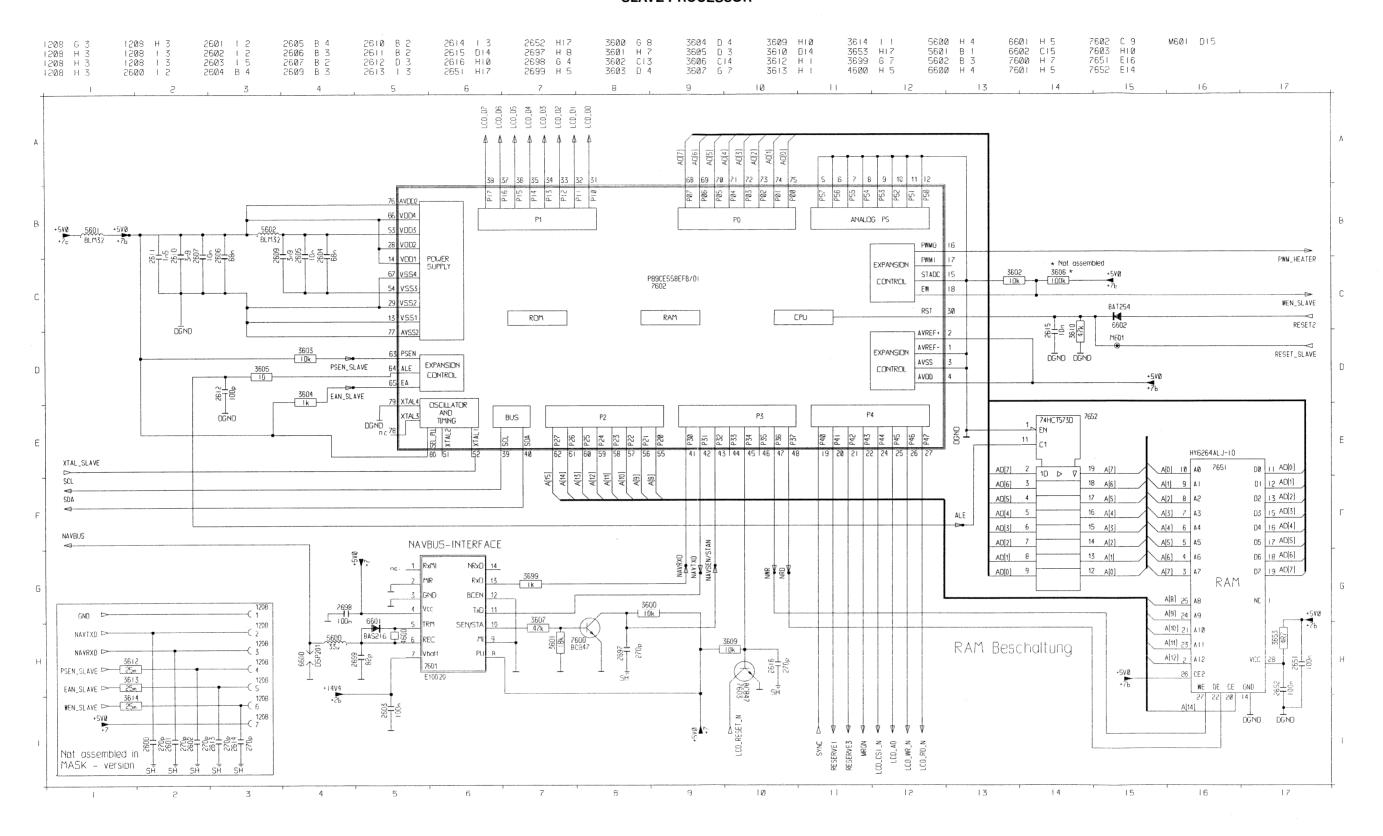
Handshake signal for synchronisation of main- and slave-CPU. High activ when unit starts up.
Control signal to switch supply voltages +8V5/+3a, HEAT-UBAT, +14V4/+2. Low = voltages ON
Switch OFF signal (Low activ 3 ms) if KL-R OFF or I/K BUS not activ for 60 s.

SLEEP_N (IC Pos.7203, Pin 38) Switch OFF signal (Low activ 3 ms) if R SCL (IC Pos.7203, Pin 39) Clock signal for I2C BUS (5.0 V level) SDA (IC Pos.7203, Pin 40) Data signal for I2C BUS (5.0 V level)

MRQN (IC Pos.7203, Pin 43) I2C BUS request line from slave controller (Low activ)

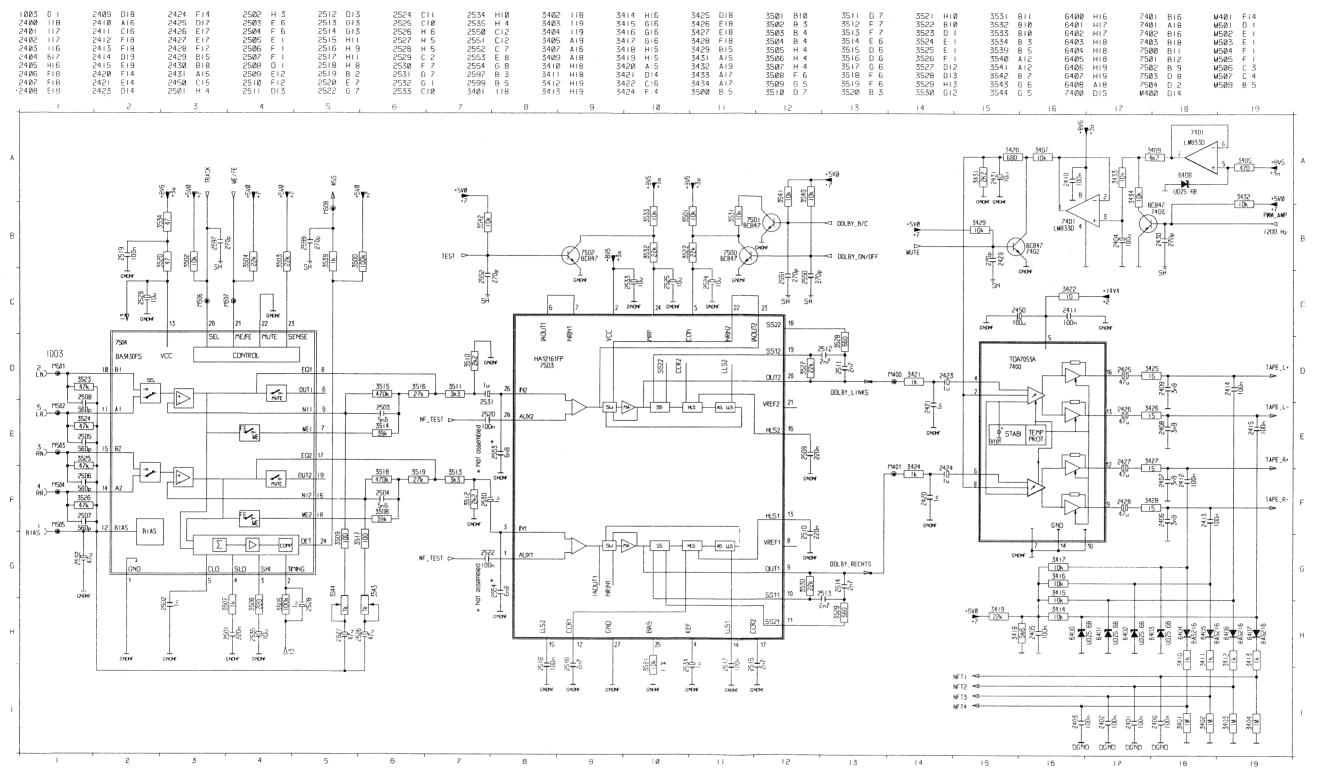
POWERON_N

SLAVE PROCESSOR



XTAL_SLAVE RESET_SLAVE (M601)

(IC Pos.7602, Pin 52) Tact frequency (16.5888 MHz) for main- and slave-CPU (DC \approx 1.4 V) Logic reset signal from main CPU after power interruption. High activ.



NF_TEST* (IC Pos.7503, Pins 1+28) PWM reference signal for AF level test DOLBY_LINKS (M400) Dolby level left = 300mVeff (test tape 200nWb/m, 400Hz) to be aligned with poti 3544 DOLBY RECHTS (M401) Dolby level right = 300mVeff (test tape 200nWb/m, 400Hz) to be aligned with poti 3543 Left channel, NOR direction (3.3 V DC) Left channel, REV direction (3.3 V DC) LN (M501) LR (M502) Right channel, NOR direction (3.3 V DC) RN (M503) (M504) Right channel, REV direction (3.3 V DC) RR BIAS (M505) Common line of magnetic head (3.3 V DC) TRACK Low = REV. direction, High = NOR. direction

ME/FE (M507) MSS (M508) MUTE (Trans. Pos.7402, Base) PWM_AMP (Trans. Pos.7403, Base) DOLBY_ON/OFF (Trans. Pos.7500, Base) DOLBY_B/C (Trans. Pos.7501, Base) (Trans. Pos.7502, Base)

Low = FE, High = ME

Low = NO modulation on tape, High = modulation on tape Preamplifier mute signal. Low (0.0 V) = AF out, High (0.7 V) = AF mutet

PWM signal for continuously amplifying control

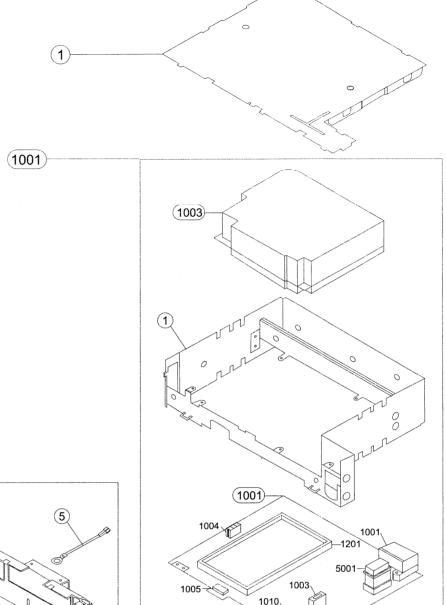
Low = DOLBY ON, High = DOLBY OFF Low = DOLBY B, High = DOLBY C

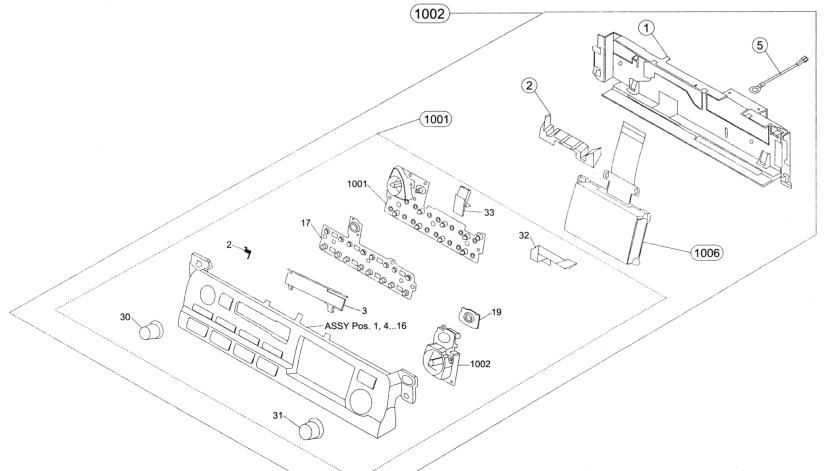
High (0.7 V) = NF_TEST disabled, Low = NF_TEST enabled (Dolby IC switched to AUX)

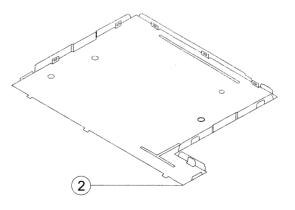
^{*} only for production purposes

EXPLODED VIEW

1001-1001-1001	4822 265 11222	CONNECTOR MAIN 6x2 FOLD BLUE
1001-1001-1003	4822 267 40818	CONNECTOR TAPE AF 5 FOLD TCS83S9V1
1001-1001-1005	4822 265 11218	CONNECTOR FLEX FOIL 10 FOLD
1001-1001-1010	4822 267 60239	CONNECTOR FLEX FOIL 21 FOLD
1001-1001-1020	4822 265 11219	CONNECTOR FLEX FOIL 7 FOLD
1001-1003	4822 691 10473	TAPE DECK SCA4.4/1
1002-1001	4822 459 04898	UNIT FRONT II ASSY
1002-1006	4822 218 11846	UNIT I CD MODULE







MICOELLEANEOUC								
MISCELLEANEOUS		2409 4822 122 32566 CAP.,	P., CER. SMD 3,9NF	10%X7R 63V	2700 4822 126 13196	CAP., CER. SMD 100NF	10%X7R 25V	3214 4822 117 12955 RES., CHIP <20W 2K7 5% 0.1W
1001 4822 265 11222	CON. 6x2 FOLD TYPE A BLUE	2410 4822 126 13196 CAP.		10%X7R 25V	2701 4822 122 33216	•	5%NP0 50V	3217 4822 051 20471 RES., CHIP <20W 277 5% 0.1W
1003 4822 267 40818	CON. TCS83S9V1 BURNDY	2411 4822 126 13196 CAP.	P., CER. SMD 100NF	10%X7R 25V	2702 4822 122 33216	*	5%NP0 50V	3219 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
1005 4822 265 11218	CON. BM H 10P F 1.00	2412 4822 126 13196 CAP.,	P., CER. SMD 100NF	10%X7R 25V		CAP., CER. SMD 270PF	5%NP0 50V	3220 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
1010 4822 267 60239	CON. 21 PINS	2413 4822 126 13196 CAP.,		10%X7R 25V	2704 4822 122 33216		5%NP0 50V	3221 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
1020 4822 265 11219	CON. BM V 7P F 1.00	2414 4822 126 13196 CAP.,		10%X7R 25V	2705 4822 124 23282	CAP., ELEC. ALU. 1UF	20% 50V	3222 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
1100 4822 252 11302	FUSE SM T 5A	2415 4822 126 13196 CAP.,	P., CER. SMD 100NF	10%X7R 25V		CAP., CER. SMD 270PF	5%NP0 50V	3226 4822 051 20472 RES., CHIP <20W 4K70 5% 0.1W
1200 4822 242 10802	QUARZ 16.588 800 MHZ	2420 5322 122 34123 CAP.,	P., CER. SMD 1NF	10%X7R 50V	2801 4822 122 33216	CAP., CER. SMD 270PF	5%NP0 50V	3300 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
		2421 5322 122 34123 CAP.,	P., CER. SMD 1NF	10%X7R 50V	2802 4822 122 33216	CAP., CER. SMD 270PF	5%NP0 50V	3301 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
CAPACITORS		2423 4822 124 23282 CAP.,		20% 50V	2803 4822 122 33216		5%NP0 50V	3302 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
	CAP., CER. SMD 3,9NF 10%X7R 63V	2424 4822 124 23282 CAP.,				CAP., CER. SMD 270PF	5%NP0 50V	3303 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
	CAP, CER, SMD 3,9NF 10%X7R 63V	2425 4822 124 40433 CAP.,	•			CAP., CER. SMD 270PF	5%NP0 50V	3304 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
	CAP, CER. SMD 270PF 5%NP0 50V	2426 4822 124 40433 CAP.,		20% 25V		CAP., CER. SMD 270PF	5%NP0 50V	3307 4822 051 20472 RES., CHIP <20W 4K70 5% 0.1W
	CAP., ELEC. ALU. 10UF 16V CAP., CER. SMD 270PF 5%NP0 50V	2427 4822 124 40433 CAP.,		20% 25V		CAP., CER. SMD 270PF	5%NP0 50V	3308 4822 051 20472 RES., CHIP <20W 4K70 5% 0.1W
	CAP., ELEC. ALU. 100UF 16V	2428 4822 124 40433 CAP.,	•	20% 25V	2808 4822 122 33216		5%NP0 50V	3309 4822 051 20471 RES., CHIP <20W 470R00 5% 0.1W
	CAP., ELEC. ALU. 1UF 20% 50V	2429 4822 122 33216 CAP., 2430 4822 122 33216 CAP.,				CAP. CER. SMD 270PF	5%NP0 50V	3310 4822 051 20471 RES., CHIP <20W 470R00 5% 0.1W
	CAP., ELEC. ALU. 22UF 20% 16V	2431 4822 124 41017 CAP.,	•	5%NP0 50V 16V		CAP., CER. SMD 270PF CAP., CER. SMD 270PF	5%NP0 50V 5%NP0 50V	3311 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
	CAP., ELEC. ALU. 1UF 20% 50V	2450 4822 124 11952 CAP.,		20% 16V		CAP., CER. SMD 270PF	5%NP0 50V	3401 4822 051 20105 RES., CHIP <20W 1M00 5% 0.1W 3402 4822 051 20105 RES., CHIP <20W 1M00 5% 0.1W
	CAP., CER. SMD 100NF 10%X7R 25V	2501 4822 126 13849 CAP.,		10% 16V	2813 4822 122 33216	*	5%NP0 50V	3402 4822 051 20105 RES., CHIP <20W 1M00 5% 0.1W 3403 4822 051 20105 RES., CHIP <20W 1M00 5% 0.1W
2110 4822 126 13196	CAP., CER. SMD 100NF 10%X7R 25V	2502 5322 122 34123 CAP.,			2814 4822 122 33216		5%NP0 50V	3404 4822 051 20105 RES., CHIP <20W 1M00 5% 0.1W
	CAP., CER. WIRE 2.7NF 10%X7R 50V	2503 4822 122 32646 CAP.,			2815 4822 122 33216		5%NP0 50V	3405 4822 051 20471 RES., CHIP <20W 470R00 5% 0.1W
2112 4822 122 32566	CAP., CER. SMD 3,9NF 10%X7R 63V	2504 4822 122 32646 CAP.,				CAP., CER. SMD 270PF	5%NP0 50V	3407 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
	CAP., CER. SMD 100NF 10%X7R 25V	2505 5322 116 80853 CAP.,		5%NP0 63V	2817 4822 126 13196		10%X7R 25V	3409 4822 051 20472 RES., CHIP <20W 4K70 5% 0.1W
	CAP., CER. SMD 100NF 10%X7R 25V	2506 5322 116 80853 CAP.,		5%NP0 63V		CAP., ELEC. ALU. 220UF	10V	3410 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
	CAP., CER. SMD 270PF 5%NP0 50V	2507 5322 116 80853 CAP.,			2819 4822 126 13196		10%X7R 25V	3411 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
	CAP., CER. WIRE 2.7NF 10%X7R 50V	2508 5322 116 80853 CAP.,		5%NP0 63V		CAP., CER. SMD 270PF	5%NP0 50V	3412 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
2117 4822 126 13196	,	2509 4822 126 13849 CAP.,	•			CAP., ELEC. ALU. 1UF	20% 50V	3413 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
2118 4822 126 13196 2119 4822 122 33216	•	2510 4822 126 13849 CAP.,		10% 16V		CAP., CER. SMD 560PF	5%NP0 63V	3414 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
	CAP., ELEC. ALU. 100UF 16V	2511 4822 122 32627 CAP., 2512 4822 122 32627 CAP.,		10%X7R 50V 10%X7R 50V		CAP., ELEC. ALU. 1UF	20% 50V	3415 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
	CAP., CER. SMD 100NF 10%X7R 25V	2513 4822 122 32627 CAP.,				CAP., CER. SMD 270PF CAP., CER. SMD 270PF	5%NP0 50V	3416 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
	CAP., ELEC. ALU. 2200UF 20% 16V	2514 4822 122 32627 CAP.,		10%X7H 50V	2904 4022 122 33210	CAF., CER. SWID 270FF	5%NP0 50V	3417 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3418 4822 051 20562 RES., CHIP <20W 5K60 5% 0.1W
	CAP., ELEC. ALU. 2200UF 20% 16V	2515 4822 122 32627 CAP.,		10%X7R 50V	RESISTORS AND JUM	PERS		3418 4822 051 20562 RES., CHIP <20W 5K60 5% 0.1W 3419 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W
2200 4822 126 13695	CAP., CER. SMD 82PF 1%NP0 63V	2516 4822 122 32627 CAP.,		10%X7R 50V		RES., CHIP <20W 68K00	5% 0.1W	3420 4822 051 20681 RES., CHIP <20W 680R00 5% 0.1W
2202 4822 126 13196	CAP., CER. SMD 100NF 10%X7R 25V	2517 4822 126 13196 CAP.,	, CER. SMD 100NF	10%X7R 25V		RES., CHIP <20W 15K00	5% 0.1W	3421 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
2203 4822 126 13196	CAP., CER. SMD 100NF 10%X7R 25V	2518 4822 126 13196 CAP.,	., CER. SMD 100NF			RES., CHIP <20W 10K	1% 0.1W	3422 4822 051 20109 RES., CHIP <20W 10R00 5% 0.1W
2204 4822 126 13851		2519 4822 126 13196 CAP.,			3103 4822 117 11449	RES., CARBON 2K2	1% 0.1W	3424 4822 051 20102 RES., CHIP <20W 1K00 5% 0.1W
	CAP., CER. SMD 10NF 10%X7R 63V	2520 4822 126 13196 CAP.,				RES., CARBON 2K2	1% 0.1W	3425 4822 117 12972 RES., CHIP <20W 15R0 5% 1W
2206 5322 122 34098	•	2522 4822 126 13196 CAP.,	,	10%X7R 25V		RES., CHIP <20W 470K00	5% 0.1W	3426 4822 117 12972 RES., CHIP <20W 15R0 5% 1W
	CAP, CER, SMD 68NF 10% 16V	2524 4822 124 41017 CAP.,		16V	3106 4822 117 10833	RES., CHIP <20W 10K	1% 0.1W	3427 4822 117 12972 RES., CHIP <20W 15R0 5% 1W
· ·	CAP., CER. SMD 56PF 1%NP0 63V							
	CAP CER SMD 18PE 1%NP0 63V	2525 4822 124 41017 CAP.,			3107 4822 117 10834	RES., CHIP <20W 47K	1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W
	CAP, CER, SMD 18PF 1%NP0 63V CAP, CER, SMD 10NF 10%X7R 63V	2526 4822 124 22646 CAP.,	, ELEC. ALU. 47UF	20% 16V	3108 4822 051 20008	RES., CHIP <20W 0R00 JUN	1% 0.1W MP. (0805)	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
2210 5322 122 34098	CAP., CER. SMD 10NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP.,	, ELEC. ALU. 47UF , ELEC. ALU. 47UF	20% 16V 20% 16V	3108 4822 051 20008 3109 4822 051 20104	RES., CHIP <20W 0R00 JU! RES., CHIP <20W 100K00	1% 0.1W MP. (0805) 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
2210 5322 122 34098 2211 4822 126 13196	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 100NF 10%X7R 25V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP.,	, ELEC. ALU. 47UF , ELEC. ALU. 47UF , ELEC. ALU. 1UF	20% 16V 20% 16V 20% 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273	RES., CHIP <20W 0R00 JU! RES., CHIP <20W 100K00 RES., CHIP <20W 27K00	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0
2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566	CAP., CER. SMD 10NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP.,	L, ELEC. ALU. 47UF L, ELEC. ALU. 47UF L, ELEC. ALU. 1UF L, ELEC. ALU. 10UF	20% 16V 20% 16V 20% 50V 16V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833	RES., CHIP <20W 0R00 JUI RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566 2213 4822 122 32566 2214 5322 122 31865	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP.,	, ELEC. ALU. 47UF , ELEC. ALU. 47UF , ELEC. ALU. 1UF , ELEC. ALU. 10UF , ELEC. ALU. 1UF , ELEC. ALU. 1UF	20% 16V 20% 16V 20% 50V 16V 20% 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833 3112 4822 051 20474	RES., CHIP <20W 0R00 JUI RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566 2213 4822 122 32566 2214 5322 122 31865 2215 5322 122 32654	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP.,	a, ELEC. ALU. 47UF a, ELEC. ALU. 47UF a, ELEC. ALU. 1UF a, ELEC. ALU. 10UF a, ELEC. ALU. 1UF a, ELEC. ALU. 1UF a, ELEC. ALU. 47UF	20% 16V 20% 16V 20% 50V 16V 20% 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833 3112 4822 051 20474 3113 4822 051 20104	RES., CHIP <20W 0R00 JUI RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W
2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566 2213 4822 122 32566 2214 5322 122 31865 - 2215 5322 122 32654 2216 5322 122 34098	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V CAP., CER. SMD 10NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 41017 CAP.,	, ELEC. ALU. 47UF , ELEC. ALU. 47UF , ELEC. ALU. 1UF , ELEC. ALU. 10UF , ELEC. ALU. 1UF , ELEC. ALU. 1UF , ELEC. ALU. 47UF , ELEC. ALU. 47UF , ELEC. ALU. 10UF	20% 16V 20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 16V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833 3112 4822 051 20474 3113 4822 051 20104 3114 4822 117 10833	RES., CHIP <20W 0R00 JUI RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 100K00	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0
2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566 2213 4822 122 32566 2214 5322 122 31865 - 2215 5322 122 34098 2217 5322 122 34098	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V CAP., CER. SMD 10NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 41017 CAP., 2534 4822 124 23282 CAP.,	a, ELEC. ALU. 47UF b, ELEC. ALU. 1UF c, ELEC. ALU. 47UF c, ELEC. ALU. 10UF c, ELEC. ALU. 1UF c, ELEC. ALU. 1UF c, ELEC. ALU. 1UF c, ELEC. ALU. 1UF	20% 16V 20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 16V 16V 20% 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833 3112 4822 051 20474 3113 4822 051 20104 3114 4822 117 10833 3115 4822 051 20683 3116 4822 051 20223	RES., CHIP <20W 0R00 JUI RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 68K00 RES., CHIP <20W 22K00	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0
2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566 2213 4822 122 32566 2214 5322 122 31865 - 2215 5322 122 34098 2217 5322 122 34098 2218 4822 126 13196	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V CAP., CER. SMD 10NF 10%X7R 25V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 41017 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 41017 CAP.,	a, ELEC. ALU. 47UF a, ELEC. ALU. 47UF a, ELEC. ALU. 1UF a, ELEC. ALU. 10UF a, ELEC. ALU. 1UF a, ELEC. ALU. 1UF a, ELEC. ALU. 47UF a, ELEC. ALU. 10UF a, ELEC. ALU. 10UF a, ELEC. ALU. 1UF a, ELEC. ALU. 1UF a, ELEC. ALU. 10UF	20% 16V 20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 16V 16V 20% 50V 16V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833 3112 4822 051 20474 3113 4822 051 20104 3114 4822 117 10833 3115 4822 051 20683 3116 4822 051 20223 3117 4822 051 20223	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 68K00 RES., CHIP <20W 22K00 RES., CHIP <20W 22K00	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0
2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566 2213 4822 122 32566 2214 5322 122 31865 - 2215 5322 122 32654 2216 5322 122 34098 2217 5322 122 34098 2218 4822 126 13196 2219 5322 122 32448	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V CAP., CER. SMD 10NF 10%X7R 25V CAP., CER. SMD 10PF 5% 50V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 41017 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 41017 CAP., 2535 4822 124 41017 CAP., 2550 4822 122 33216 CAP.,	a, ELEC. ALU. 47UF b, ELEC. ALU. 1UF c, ELEC. ALU. 47UF c, ELEC. ALU. 10UF c, ELEC. ALU. 1UF c, ELEC. ALU. 1UF c, ELEC. ALU. 1UF c, ELEC. ALU. 10UF c, ELEC. ALU. 10UF c, CER. SMD 270PF	20% 16V 20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 16V 16V 20% 50V 16V 5%NP0 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833 3112 4822 051 20474 3113 4822 051 20104 3114 4822 117 10833 3115 4822 051 20683 3116 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 68K00 RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3504 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W
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2210 5322 122 34098 2211 4822 126 13196 2212 4822 122 32566 2213 4822 122 32566 2214 5322 122 31865 - 2215 5322 122 34098 2216 5322 122 34098 2217 5322 122 34098 2218 4822 126 13196 2219 5322 122 32448 2220 4822 122 33216 2223 4822 122 33216	CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V CAP., CER. SMD 10NF 10%X7R 25V CAP., CER. SMD 10PF 5% 50V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 270PF 5%NPO 50V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 41017 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 41017 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 3282 CAP., 2535 4822 124 3282 CAP., 2535 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2552 4822 122 33216 CAP.,	a, ELEC. ALU. 47UF a, ELEC. ALU. 1UF a, ELEC. ALU. 10UF a, ELEC. ALU. 10UF a, ELEC. ALU. 1UF a, ELEC. ALU. 10UF a, ELEC. ALU. 10UF a, ELEC. ALU. 10UF a, CER. SMD 270PF a, CER. SMD 270PF a, CER. SMD 270PF a, CER. SMD 270PF	20% 16V 20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 16V 16V 20% 50V 16V 5%NPO 50V 5%NPO 50V 5%NPO 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 117 10833 3112 4822 051 20474 3113 4822 051 20104 3114 4822 117 10833 3115 4822 051 20683 3116 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833 3119 4822 117 10833 3120 4822 051 20223	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3504 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3505 4822 051 20104 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 051 20104 RES., CHIP <20W 10K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 10K00 5% 0.1W
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SMD 270PF ., CER. SMD 100NF ., CER. SMD 68NF ., CER. SMD 10NF ., CER. SMD 3,9NF ., CER. SMD 3,9NF ., CER. SMD 1,5NF ., CER. SMD 1,5NF ., CER. SMD 1,5NF ., CER. SMD 100PF	20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 50V 20% 16V 16V 20% 50V 50V 50V 50V 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 10%X7R 63V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 051 20474 3113 4822 051 20474 3114 4822 051 20104 3115 4822 051 20683 3116 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833 3119 4822 117 10833 3120 4822 051 20223 3121 4822 051 20223 3123 4822 051 20223 3124 4822 051 20223 3125 4822 051 20102 3126 4822 051 20102 3127 4822 051 20478 3127 4822 051 20102 3128 4822 051 20102 3129 4822 051 20109 3120 4822 051 20109 3121 4822 051 20109 3125 4822 051 20102 3126 4822 051 20109 3127 4822 051 20109 3128 4822 051 20109 3129 4822 051 20109 3130 4822 051 20109 3131	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K RES., CHIP <20W 1K00 RES., CHIP <20W 10R00 RES.	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 2023 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3505 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 22K00 5% 0.1W 3507 4822 051 20104 RES., CHIP <20W 10K00 5% 0.1W 3508 4822 051 20102 RES., CHIP <20W 10K00 5% 0.1W 3509 4822 051 20102 RES., CHIP <20W 22R0 5% 0.1W 3509 4822 051 20102 RES., CHIP <20W 39K00 5% 0.1W 3510 4822 117 11449 RES., CHIP <20W 39K00 5% 0.1W 3511 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3512 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3513 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3514 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3515 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3517 4822 051 20373 RES., CHIP <20W 3FK00 5% 0.1W 3518 4822 051 20273 RES., CHIP <20W 27K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20273 RES., CHIP <20W 470K00 5% 0.1W
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SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V CAP., CER. SMD 10NF 10%X7R 63V CAP., CER. SMD 270PF 5%NP0 50V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 270PF 5%NP0 50V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 23282 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 22646 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 23282 CAP., 2535 4822 122 33216 CAP., 2550 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2599 4822 122 33216 CAP., 2599 4822 122 33216 CAP., 2600 4822 122 33216 CAP., 2601 4822 122 33216 CAP., 2603 4822 122 33216 CAP., 2604 4822 126 13196 CAP., 2605 5322 122 34098 CAP., 2606 4822 126 13851 CAP., 2607 5322 122 34098 CAP., 2609 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2611 5322 122 31865 CAP.,	., ELEC. ALU. 47UF ., ELEC. ALU. 1UF ., CER. SMD 270PF ., CER. SMD 100NF ., CER. SMD 10NF ., CER. SMD 3,9NF ., CER. SMD 3,9NF ., CER. SMD 1,5NF ., CER. SMD 100PF	20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 50V 20% 16V 300 50V 20% 16V 50V 50V 50V 50V 50V 50V 50V 50V 50V 50	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 051 20474 3113 4822 051 20474 3114 4822 051 20104 3115 4822 051 20683 3116 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833 3119 4822 117 10833 3120 4822 051 20223 3121 4822 051 20223 3123 4822 051 20223 3124 4822 051 20223 3125 4822 051 20102 3126 4822 051 20102 3127 4822 051 20478 3127 4822 051 20478 3128 4822 051 20102 3129 4822 051 20102 3129 4822 051 20109 3120 4822 051 20109 3123 4822 051 20109 3124 4822 051 20109 3125 4822 051 20109 3120 4822 051 20109 3120 4822 051 20109 3120 4822 051 20109 3130	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K RES., CHIP <20W 1K00 RES., CHIP <20W 10R00 RES., CHIP <20W 10K RES.	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3505 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 22K00 5% 0.1W 3507 4822 051 20102 RES., CHIP <20W 22CR0 5% 0.1W 3508 4822 051 20102 RES., CHIP <20W 39K00 5% 0.1W 3509 4822 051 20102 RES., CHIP <20W 39K00 5% 0.1W 3510 4822 117 11449 RES., CHIP <20W 39K00 5% 0.1W 3511 4822 051 20323 RES., CHIP <20W 39K00 5% 0.1W 3512 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3513 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3514 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3515 4822 051 20332 RES., CHIP <20W 38K30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 39K00 5% 0.1W 3517 4822 051 20337 RES., CHIP <20W 39K00 5% 0.1W 3518 4822 051 20474 RES., CHIP <20W 39K00 5% 0.1W 3516 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3518 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3518 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3518 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W
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SMD 3,9NF 10%X7R 63V CAP., CER. SMD 1,5NF 10%X7R 63V CAP., CER. SMD 22NF 10%X7R 63V CAP., CER. SMD 10NF 5% 50V CAP., CER. SMD 270PF 5%NP0 50V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 270PF 5%NP0 50V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 100NF 10%X7R 25V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 23282 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 2282 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 41017 CAP., 2550 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2597 4822 122 33216 CAP., 2599 4822 122 33216 CAP., 2600 4822 122 33216 CAP., 2601 4822 122 33216 CAP., 2603 4822 122 33216 CAP., 2604 4822 122 33216 CAP., 2605 5322 122 34098 CAP., 2606 4822 122 34098 CAP., 2610 4822 122 32566 CAP., 2611 5322 122 31865 CAP., 2612 5322 122 34098 CAP., 2612 5322 122 34098 CAP., 2615 5322 122 34098 CAP.,	., ELEC. ALU. 47UF ., ELEC. ALU. 1UF ., CER. SMD 270PF ., CER. SMD 370PF ., CER. SMD 10NF ., CER. SMD 10NF ., CER. SMD 3,9NF ., CER. SMD 3,9NF ., CER. SMD 1,5NF ., CER. SMD 100PF ., CER. SMD 270PF	20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 50V 20% 16V 20% 50V 20% 16V 50V 50V 50V 50V 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 10%X7R 63V 5%NP0 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 051 20474 3113 4822 051 20104 3114 4822 051 20683 3115 4822 051 20223 3116 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833 3120 4822 051 20223 3121 4822 117 10833 3122 4822 051 20223 3123 4822 051 20223 3124 4822 051 20223 3125 4822 051 20102 3126 4822 051 20102 3127 4822 051 20478 3127 4822 051 20478 3128 4822 051 20102 3129 4822 051 20109 3130 4822 051 20109 3131 4822 051 20109 3120 4822 051 20109 3130 4822 051 20109 3130 4822 051 20109 3130 4822 051 20109 3120 4822 117 10833 3201 4822 117 10833 3202	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 20K	1% 0.1W MP. (0805) 5% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3505 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 22K00 5% 0.1W 3507 4822 051 20102 RES., CHIP <20W 22DR 1% 0.1W 3508 4822 051 20102 RES., CHIP <20W 39K00 5% 0.1W 3509 4822 051 20102 RES., CHIP <20W 39K00 5% 0.1W 3510 4822 117 11449 RES., CHIP <20W 39K00 5% 0.1W 3511 4822 051 20332 RES., CHIP <20W 30K00 5% 0.1W 3512 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3513 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3514 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3515 4822 051 20332 RES., CHIP <20W 39K00 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 39K00 5% 0.1W 3517 4822 051 20337 RES., CHIP <20W 39K00 5% 0.1W 3518 4822 051 20474 RES., CHIP <20W 39K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3518 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3518 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3520 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3521 4822 117 10965 RES., CHIP <20W 470K00 5% 0.1W
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SMD 270PF 5%NPO 50V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 100NF 10%X7R 25V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 23282 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 23282 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 233216 CAP., 2550 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2559 4822 122 33216 CAP., 2599 4822 122 33216 CAP., 2600 4822 122 33216 CAP., 2601 4822 122 33216 CAP., 2603 4822 122 33216 CAP., 2604 4822 122 33216 CAP., 2605 5322 122 34098 CAP., 2606 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2611 5322 122 34098 CAP., 2612 5322 122 34098 CAP., 2615 5322 122 34098 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 32561 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 3251 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 33216 CAP., 2616 4822 122 33216 CAP., 2617 5322 122 34098 CAP., 2618 5322 122 34098 CAP., 2619 4822 122 32561 CAP., 2619 4822 122 33216 CAP., 2619 4822 122 33216 CAP., 2610 4822 122 33216 CAP., 2611 5322 122 34098 CAP., 2612 5322 122 34098 CAP., 2613 4822 126 13196 CAP., 2651 4822 126 13196 CAP., 2652 4822 126 13196 CAP.,	., ELEC. ALU. 47UF ., ELEC. ALU. 1UF ., CER. SMD 270PF ., CER. SMD 370PF ., CER. SMD 10NF ., CER. SMD 3,9NF ., CER. SMD 3,9NF ., CER. SMD 1,5NF ., CER. SMD 10NF	20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 50V 20% 16V 20% 50V 20% 16V 50V 50V 50V 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 10%X7R 63V 5%NP0 50V 10%X7R 63V 5%NP0 50V 10%X7R 63V 5%NP0 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 051 20474 3113 4822 051 20104 3114 4822 051 20683 3115 4822 051 20223 3117 4822 051 20223 3118 4822 051 20223 3119 4822 117 10833 3120 4822 051 20223 3121 4822 051 20223 3123 4822 051 20223 3124 4822 051 20223 3125 4822 051 20102 3124 4822 051 20102 3125 4822 051 20102 3126 4822 051 20102 3127 4822 051 20102 3128 4822 051 20102 3129 4822 051 20102 3120 4822 051 20109 3130 4822 051 20109 3130 4822 051 20109 3130 4822 051 20109 3130 4822 051 20109 3130 4822 117 10833 3201 4822 117 10833 3202 4822 117 10833 3203	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K RES., CHIP <20W 1K00 RES., CHIP <20W 10R00 RES., CHIP <20W 10K RES.	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3505 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 117 11503 RES., CHIP <20W 10K00 5% 0.1W 3507 4822 051 20104 RES., CHIP <20W 10K00 5% 0.1W 3508 4822 051 20102 RES., CHIP <20W 10K00 5% 0.1W 3509 4822 051 20102 RES., CHIP <20W 10K00 5% 0.1W 3509 4822 051 20101 RES., CHIP <20W 10R00 5% 0.1W 3510 4822 117 11449 RES., CHIP <20W 39K00 5% 0.1W 3511 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3512 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3513 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3514 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3515 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3517 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3518 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3519 4822 051 20333 RES., CHIP <20W 3K30 5% 0.1W 3519 4822 051 20373 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3520 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3521 4822 117 10965 RES., CHIP <20W 470K00 5% 0.1W 3522 4822 051 20423 RES., CHIP <20W 470K00 5% 0.1W
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SMD 1,5NF 10%X7R 63V CAP., CER. SMD 10NF 5% 50V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 23282 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 23282 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 23282 CAP., 2555 4822 122 33216 CAP., 2550 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2597 4822 122 33216 CAP., 2599 4822 122 33216 CAP., 2600 4822 122 33216 CAP., 2601 4822 122 33216 CAP., 2603 4822 122 33216 CAP., 2604 4822 122 33216 CAP., 2605 5322 122 34098 CAP., 2606 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2610 5322 122 34098 CAP., 2610 5322 122 34098 CAP., 2610 5322 122 32566 CAP., 2611 5322 122 32566 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 32531 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 33216 CAP., 2617 5322 122 34098 CAP., 2618 5322 122 34098 CAP., 2619 4822 122 33216 CAP., 2610 4822 122 33216 CAP., 2611 5322 122 34098 CAP., 2612 5322 122 34098 CAP., 2613 5322 122 34098 CAP., 2614 5322 122 34098 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 33216 CAP., 2617 4822 122 33216 CAP., 2618 4822 126 13196 CAP., 2652 4822 126 13196 CAP., 2652 4822 126 13196 CAP., 2657 4822 122 33216 CAP., 2657 4822 122 3321	A, ELEC. ALU. 47UF A, ELEC. ALU. 1UF A, ELEC. ALU. 10UF A, CER. SMD 270PF A, CER. SMD 100NF A, CER. SMD 10NF A, CER. SMD 3,9NF A, CER. SMD 3,9NF A, CER. SMD 10NF A, CER. SM	20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 50V 20% 16V 20% 50V 20% 16V 50V 50V 50V 50V 50NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 10%X7R 63V 5%NP0 50V 10%X7R 63V 5%NP0 50V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 051 20474 3113 4822 051 20104 3114 4822 051 20104 3115 4822 051 20683 3116 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833 3120 4822 051 20223 3121 4822 117 10833 3122 4822 051 20223 3123 4822 051 20223 3124 4822 051 20102 3125 4822 051 20102 3126 4822 051 20102 3127 4822 051 20102 3128 4822 051 20102 3129 4822 051 20102 3129 4822 051 20102 3130 4822 051 20109 3130 4822 051 20109 3130 4822 117 10833 3201 4822 117 10833 3202 4822 117 10833 3203 4822 117 10833 3204 4822 051 20564 3209 4822 117 10833 3201	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K RES., CHIP <20W 10R00 RES., CHIP <20W 10R00 RES., CHIP <20W 10K RES.	1% 0.1W MP. (0805) 5% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3431 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3505 4822 051 20123 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 051 20104 RES., CHIP <20W 22K00 5% 0.1W 3507 4822 051 20102 RES., CHIP <20W 10K00 5% 0.1W 3508 4822 051 20102 RES., CHIP <20W 22CR 1% 0.1W 3509 4822 051 20101 RES., CHIP <20W 10CR 0.5% 0.1W 3509 4822 051 20101 RES., CHIP <20W 10CR 0.5% 0.1W 3510 4822 117 11449 RES., CHIP <20W 10CR 0.5% 0.1W 3511 4822 051 20332 RES., CHIP <20W 10CR 0.5% 0.1W 3512 4822 117 11449 RES., CHIP <20W 3K30 5% 0.1W 3513 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3514 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3515 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3517 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3518 4822 051 20332 RES., CHIP <20W 3F00 5% 0.1W 3519 4822 051 20332 RES., CHIP <20W 3F00 5% 0.1W 3519 4822 051 20332 RES., CHIP <20W 3F00 5% 0.1W 3519 4822 051 20332 RES., CHIP <20W 3F00 5% 0.1W 3519 4822 051 20332 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3520 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3521 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3522 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3524 4822 051 20479 RES., CHIP <20W 470K00 5% 0.1W 3523 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
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SMD 10NF 10%X7R 63V CAP., CER. SMD 10PF 5% 50V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 3,9NF 10%X7R 63V CAP., CER. SMD 3,9NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 23282 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 23282 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 233216 CAP., 2550 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2597 4822 122 33216 CAP., 2599 4822 122 33216 CAP., 2600 4822 122 33216 CAP., 2601 4822 122 33216 CAP., 2603 4822 122 33216 CAP., 2604 4822 122 33216 CAP., 2605 5322 122 34098 CAP., 2606 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2610 5322 122 34098 CAP., 2611 5322 122 34098 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 32561 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 32531 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 33216 CAP., 2617 5322 122 34098 CAP., 2618 4822 122 33216 CAP., 2619 4822 122 33216 CAP., 2610 4822 122 33216 CAP., 2611 5322 122 34098 CAP., 2612 5322 122 34098 CAP., 2613 4822 122 33216 CAP., 2614 4822 122 33216 CAP., 2652 4822 126 13196 CAP., 2654 4822 122 33216 CAP., 2657 4822 122 33216 CAP., 2657 4822 122 33216 CAP., 2658 4822 126 13196 CAP., 2698 4822 122 33216 CAP., 2698 4822 122 332	., ELEC. ALU. 47UF ., ELEC. ALU. 1UF ., CER. SMD 270PF ., CER. SMD 39NF ., CER. SMD 10NF ., CER. SMD 3,9NF ., CER. SMD 3,9NF ., CER. SMD 10NF	20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 50V 20% 16V 20% 50V 20% 16V 50V 50V 50V 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 10%X7R 63V 5%NP0 50V 10%X7R 63V 5%NP0 50V 10%X7R 25V 10%X7R 25V 5%NP0 50V 10%X7R 25V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 051 20474 3112 4822 051 20474 3113 4822 051 20104 3114 4822 117 10833 3115 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833 3120 4822 051 20223 3121 4822 117 10833 3122 4822 051 20223 3123 4822 051 20223 3124 4822 051 20223 3125 4822 051 20102 3126 4822 051 20102 3127 4822 051 20102 3128 4822 051 20478 3129 4822 051 20478 3129 4822 051 20102 3129 4822 051 20109 3130 4822 051 20109 3130 4822 051 20109 3131 4822 051 20109 3129 4822 051 20109 3120 4822 117 10833 3201 4822 117 10833	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 27K00 RES., CHIP <20W 10K RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K RES., CHIP <20W 10R00 RES., CHIP <20W 10R00 RES., CHIP <20W 10R00 RES., CHIP <20W 10K	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 1% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3505 4822 051 20104 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 051 20102 RES., CHIP <20W 100K00 5% 0.1W 3507 4822 051 20102 RES., CHIP <20W 100K00 5% 0.1W 3508 4822 051 20102 RES., CHIP <20W 20R 1% 0.1W 3509 4822 051 20102 RES., CHIP <20W 39K00 5% 0.1W 3509 4822 051 20101 RES., CHIP <20W 39K00 5% 0.1W 3510 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3511 4822 051 20332 RES., CHIP <20W 30K00 5% 0.1W 3512 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3513 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3514 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3515 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3517 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3518 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3519 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3517 4822 051 20332 RES., CHIP <20W 30K30 5% 0.1W 3518 4822 051 20373 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3524 4822 117 10834 RES., CHIP <20W 470K00 5% 0.1W 3524 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W 3524 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W 3525 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W 3525 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W
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SMD 10NF 5% 50V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 220NF 10% 16V CAP., CER. SMD 270PF 5%NPO 50V CAP., CER. SMD 100NF 10%X7R 25V CAP., CER. SMD 3,9NF 10%X7R 63V	2526 4822 124 22646 CAP., 2527 4822 124 22646 CAP., 2528 4822 124 23282 CAP., 2529 4822 124 23282 CAP., 2530 4822 124 23282 CAP., 2531 4822 124 23282 CAP., 2532 4822 124 22646 CAP., 2533 4822 124 23282 CAP., 2534 4822 124 23282 CAP., 2535 4822 124 23282 CAP., 2555 4822 122 33216 CAP., 2550 4822 122 33216 CAP., 2551 4822 122 33216 CAP., 2552 4822 122 33216 CAP., 2597 4822 122 33216 CAP., 2599 4822 122 33216 CAP., 2600 4822 122 33216 CAP., 2601 4822 122 33216 CAP., 2603 4822 122 33216 CAP., 2604 4822 122 33216 CAP., 2605 5322 122 34098 CAP., 2606 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2610 4822 122 32566 CAP., 2610 5322 122 34098 CAP., 2610 5322 122 34098 CAP., 2610 5322 122 32566 CAP., 2611 5322 122 32566 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 32531 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 33216 CAP., 2617 5322 122 34098 CAP., 2618 5322 122 34098 CAP., 2619 4822 122 33216 CAP., 2610 4822 122 33216 CAP., 2611 5322 122 34098 CAP., 2612 5322 122 34098 CAP., 2613 5322 122 34098 CAP., 2614 5322 122 34098 CAP., 2615 5322 122 34098 CAP., 2616 4822 122 33216 CAP., 2617 4822 122 33216 CAP., 2618 4822 126 13196 CAP., 2652 4822 126 13196 CAP., 2652 4822 126 13196 CAP., 2657 4822 122 33216 CAP., 2657 4822 122 3321	., ELEC. ALU. 47UF ., ELEC. ALU. 1UF ., CER. SMD 270PF ., CER. SMD 39NF ., CER. SMD 10NF ., CER. SMD 3,9NF ., CER. SMD 3,9NF ., CER. SMD 10NF	20% 16V 20% 50V 16V 20% 50V 20% 50V 20% 50V 20% 16V 20% 50V 20% 16V 50V 50V 50V 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 5%NP0 50V 10%X7R 63V 5%NP0 50V 10%X7R 63V 5%NP0 50V 10%X7R 25V 10%X7R 25V 5%NP0 50V 10%X7R 25V	3108 4822 051 20008 3109 4822 051 20104 3110 4822 051 20273 3111 4822 051 20474 3112 4822 051 20474 3113 4822 051 20104 3114 4822 117 10833 3115 4822 051 20223 3117 4822 051 20223 3118 4822 117 10833 3120 4822 051 20223 3121 4822 117 10833 3122 4822 051 20223 3123 4822 051 20223 3124 4822 051 20223 3125 4822 051 20102 3126 4822 051 20102 3127 4822 051 20102 3128 4822 051 20478 3129 4822 051 20478 3129 4822 051 20102 3129 4822 051 20109 3130 4822 051 20109 3130 4822 051 20109 3131 4822 051 20109 3129 4822 051 20109 3120 4822 117 10833 3201 4822 117 10833	RES., CHIP <20W 0R00 JUN RES., CHIP <20W 100K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 470K00 RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 10K RES., CHIP <20W 22K00 RES., CHIP <20W 22K00 RES., CHIP <20W 10K RES., CHIP <20W 10R00 RES., CHIP <20W 10R00 RES., CHIP <20W 10K RES.	1% 0.1W MP. (0805) 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 5% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W 1% 0.1W 5% 0.1W	3428 4822 117 12972 RES., CHIP <20W 15R0 5% 1W 3429 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3430 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3431 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3432 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3433 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3434 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3500 4822 051 20104 RES., CHIP <20W 10K 1% 0.1W 3501 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3502 4822 117 10833 RES., CHIP <20W 10K 1% 0.1W 3503 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3504 4822 051 20223 RES., CHIP <20W 10K 1% 0.1W 3505 4822 051 20223 RES., CHIP <20W 22K00 5% 0.1W 3506 4822 051 20104 RES., CHIP <20W 22K00 5% 0.1W 3507 4822 051 20104 RES., CHIP <20W 22K00 5% 0.1W 3508 4822 051 20102 RES., CHIP <20W 20R 1% 0.1W 3509 4822 051 20102 RES., CHIP <20W 20R 1% 0.1W 3509 4822 051 20102 RES., CHIP <20W 39K00 5% 0.1W 3509 4822 051 20101 RES., CHIP <20W 39K00 5% 0.1W 3510 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3511 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3512 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3513 4822 051 20332 RES., CHIP <20W 3K30 5% 0.1W 3514 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3515 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3516 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3517 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3518 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3519 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3510 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3511 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3512 4822 117 11449 RES., CARBON 2K2 1% 0.1W 3513 4822 051 20332 RES., CHIP <20W 3F30 5% 0.1W 3514 4822 051 20334 RES., CHIP <20W 3F30 5% 0.1W 3515 4822 051 20373 RES., CHIP <20W 470K00 5% 0.1W 3516 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3519 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3520 4822 051 20474 RES., CHIP <20W 470K00 5% 0.1W 3521 4822 117 10834 RES., CHIP <20W 470K00 5% 0.1W 3522 4822 051 20233 RES., CHIP <20W 470K00 5% 0.1W 3524 4822 117 10834 RES., CHIP <20W 47K 1% 0.1W

22 SY 405 16

3527	4822 051 20223	RES., CHIP <20W	22K00	5%	0.1W	DIOD	ES		
3528	4822 051 20561	RES., CHIP <20W	560R00	5%	0.1W	6100	4822 130 10185	REFERENCE	UDZ5.6B
	4822 051 20561	RES., CHIP <20W		5%	0.1W	6101	4822 130 11152	REFERENCE	UDZ18B
	4822 051 20223	RES., CHIP <20W		5%	0.1W	6102	4822 130 83757	BAS216	
3531	4822 117 10833	RES., CHIP <20W		1%	0.1W	6103	5322 130 34331	BAV70	
	4822 051 20223	RES., CHIP <20W		5%	0.1W		5322 130 34331	BAV70	
3533		RES., CHIP <20W		1%	0.1W	6105	5322 130 10675	POWER REC.	MBRS1100
	4822 051 20479	RES., CHIP <20W		5%	0.1W	6106	5322 130 34337	BAV99	
3539	4822 051 20102	RES., CHIP <20W		5%	0.1W	6108	4822 130 83757	BAS216	
	4822 117 10833	RES., CHIP <20W		1%	0.1W	6110		POWER REC.	1SR154-400
3541	4822 117 10833	RES., CHIP <20W		1%	0.1W	6113	4822 130 10654	BAT254	DOD 00444 4045
	4822 117 10833	RES., CHIP <20W		1%	0.1W	6200	4822 252 60125	SPARK GAP	DSP-201M-A21F
	4822 101 11187	RES., VAR. <20W		30%LIN	,		4822 130 10654	BAT254	
	4822 101 11187 4822 117 10833	RES., VAR. <20W RES., CHIP <20W		30%LIN 1%		6203 6301	4822 130 10654	BAT254	
3601	4822 117 10833	RES., CHIP <20W		1%	0.1W	6400	5322 130 34331	BAV70	LIDZE CD
	4822 117 10903	RES., CHIP <20W		1%	0.1W 0.1W	6401	4822 130 10185 4822 130 10185	REFERENCE	UDZ5.6B
	4822 117 10833	RES., CHIP <20W		1%	0.1W		4822 130 10185		UDZ5.6B UDZ5.6B
	4822 051 20102	RES., CHIP <20W		5%	0.1W	6403	4822 130 10185		UDZ5.6B
	4822 051 20109	RES., CHIP <20W		5%	0.1W	6404	4822 130 83757	BAS216	OD25.0D
3607		RES., CHIP <20W		1%	0.1W	6405	4822 130 83757	BAS216	
3609	4822 117 10833	RES., CHIP <20W		1%	0.1W	6406	4822 130 83757	BAS216	
	4822 117 10834	RES., CHIP <20W		1%	0.1W	6407		BAS216	
3653	4822 051 20478	RES., CHIP <20W		5%	0.1W	6408	4822 130 10185	REFERENCE	UDZ5.6B
	4822 051 20102	RES., CHIP <20W		5%	0.1W	6600	4822 252 60125	SPARK GAP	DSP-201M-A21F
	4822 051 20223	RES., CHIP <20W		5%	0.1W	6602			2011111111111
3701	4822 051 20223	RES., CHIP <20W		5%	0.1W	6700	4822 130 83757	BAS216	
	4822 051 20223	RES., CHIP <20W		5%	0.1W	6800		BAV70	
3800	4822 117 10833	RES., CHIP <20W		1%	0.1W	6801	4822 130 10185	REFERENCE	UDZ5.6B
3801	4822 117 10834	RES., CHIP <20W		1%	0.1W	6900	4822 130 10185		UDZ5.6B
	4822 117 10833	RES., CHIP <20W	10K	1%	0.1W	6901	4822 130 83757	BAS216	
3803	4822 117 10833	RES., CHIP <20W	10K	1%	0.1W				
3804	4822 051 20228	RES., CHIP <20W	2R20	5%	0.1W	TRAN	ISISTORS AND IC	's	
3805	4822 117 10833	RES., CHIP <20W	10K	1%	0.1W	7100	4822 209 33883	TLE4262G	
	4822 051 20471	RES., CHIP <20W		5%	0.1W	7101	4822 209 15979	VN02NSP	
	4822 051 20471	RES., CHIP <20W		5%	0.1W		4822 130 60511	BC847B	
	4822 051 20223	RES., CHIP <20W		5%	0.1W	7103		BC847B	
3811	4822 051 20223	RES., CHIP <20W		5%	0.1W	7104		BC847B	
	4822 051 20223	RES., CHIP <20W		5%	0.1W		5322 130 60508	BC857B	
	4822 051 20223	RES., CHIP <20W		5%	0.1W	7106		BC857B	
	4822 051 20223	RES., CHIP <20W		5%	0.1W	7107		BC857B	
	4822 051 20223	RES., CHIP <20W		5%	0.1W	7108	5322 130 60508	BC857B	
	4822 051 20223	RES., CHIP <20W		5%	0.1W	7109	4822 130 60511	BC847B	
3817		RES., CHIP <20W		5%	0.1W	7110	5322 130 60508	BC857B	
	4822 051 20223 4822 051 20223	RES., CHIP <20W RES., CHIP <20W		5% 5%	0.1W	7111	4822 209 72227 4822 209 15979	L4916	
	4822 051 20223	RES., CHIP <20W		5% 5%	0.1W 0.1W			VN02NSP	
3821	4822 051 20223	RES., CHIP <20W		5% 5%	0.1W	7200 7201	4822 130 60511 4822 209 15825	BC847B E100.20B	
3900	4822 117 11449	RES., CARBON	2K2	1%	0.1W	7201		ST24C08M6	
3901	4822 051 20223	RES., CHIP <20W		5%	0.1W		4822 209 16194	P87CE560EFB/144	
	4822 051 20101	RES., CHIP <20W		5%	0.1W	7400	4822 209 16193	TDA7053AT	
	4822 051 20223	RES., CHIP <20W		5%	0.1W	7401	4822 209 30095	LM833D	
3904		RES., CHIP <20W		1%	0.1W	7402		BC847B	
3905	4822 117 10833	RES., CHIP <20W		1%	0.1W	7403	4822 130 60511	BC847B	
	4822 051 20223	RES., CHIP <20W		5%	0.1W		4822 130 60511	BC847B	
3908	4822 117 11449	RES., CARBON	2K2	1%	0.1W	7501	4822 130 60511	BC847B	
	4822 117 10833	RES., CHIP <20W		1%	0.1W		4822 130 60511	BC847B	
4200	4822 051 20008	RES., CHIP <20W	OROO JUN	MP. (0805)		7503	4822 209 33636	HA12161FP	
4600	4822 051 20008	RES., CHIP <20W	OROO JUN	ИР. (0805)	7504	4822 209 33884	BA3430FS	
				·		7600	4822 130 60511	BC847B	
COILS	;					7601	4822 209 15825	E100.20B	
5100	4822 157 71259	FILTER CU15B2				7602	4822 209 16195	P87CE560EFB/145	
	4822 157 10396	LQH4N 33U 10%				7603	4822 130 60511	BC847B	
5201		BLM31BG01SPT				7652		SN74HCT573DW	
	4822 157 71267	BLM31BG01SPT					4822 130 60511	BC847B	
	4822 157 10396	LQH4N 33U 10%				7901	5322 130 60508	BC857B	
	4822 157 71267	BLM31BG01SPT				7902	5322 130 60508	BC857B	
2002	4822 157 /126/	BLM31BG01SPT							

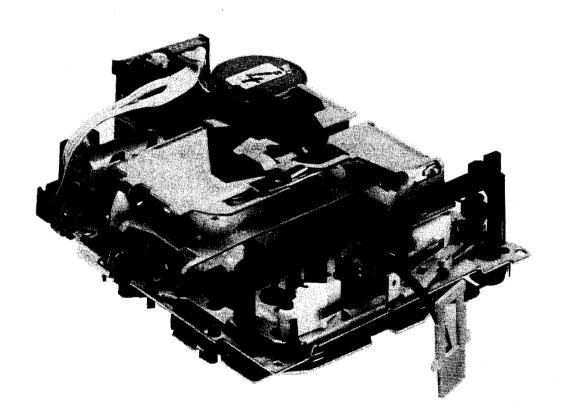
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Version 4.4



Sarvice Manual

12 V ⊡—|



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48/22 725 23509

MECHANICAL SPECIFICATION

Operating positions:

Any position from horizontal to 45° standing vertically on the rear side.

Operating temperature:

-20°C to +70°C

Tape speed:

4,76 cm/sec

Wow and flutter:

< 0,5% unweighted

< 0,3% weighted

Winding time:

Test tape: RCA 118 (C60) < 110 sec

Eject and loading time:

< 2 sec

ELECTRICAL SPECIFICATION

Voltage:

min 10,6 V max 16,0 V

Current - playback:

200 mA

Current - fast wind:

150 mA

Current - eject, standby:

100 μΑ

Hold in voltage:

8.0 V

Capstan motor:

14.4 V

Servo motor:

2 V DC Play

11,5 V DC Fast, Servo

Playback Crosstalk

ch. 1 - 2 / 3 - 4

> 36 dB

ch. 2 - 3

>46 dB

FEATURES

The SCA-4.4 tape deck is usable in several sets. Most of the control functions depend on the hard- and software-configuration of the set in which the deck is installed.

The set µC can control soft eject, emergency eject, standby mode, reverse function, MSS, ME/FE and DOLBY indication.

Some versions of the deck could be equipped with a groved head and/or a preamplifier circuit.

HANDLING AND DEMOUNTING INSTRUCTIONS

GENERAL

- Protect the tape deck against ESD!
- Plastic catches and snap connections must be released careful with screwdriver or tweezers.
- Cables must be laid in the defined cable guidings after mounting.
- For lubrication see indications in the exploded view.
- To clean tape transport and head only use moist cleaning tapes or piece of cloth, take care that no fluid (alcohol) drops into the bearing.
- For transport lift/carrier assy must be in eject position, do not carry the deck by touching the lift/carrier.
- Use a screwdriver 2,5 mm with insulated shaft for adjusting drift.
- Screw the deck into the set in order: Front right, front left, rear left, rear right.

SCA-4.4

DEMOUNTING

- 1. Carrier/lift (44)
- 1.1 Lift in eject position put leg of eject spring (12) into mounting position acc. fig. 8 and fig. 2 J
- 1.2 Lift in play position unclamp cassette holder (49) from eject lever (48) with a left-upwards motion acc. fig.1-B
- 1.3 Lift in eject position push plastic hook (fig.1-D) and pull out eject lever, remember position of ejector spring (55) and switching pin (54) for re-assembly later on
- 1.4 Release fixation lever (fig.1-F) by clicking out in left direction and then turn to the right
- 1.5 Lift in mid position take out carrier and lift by releasing plastic hooks at the left (fig.1-G)
- 2. Head support
- 2.1 Take out carrier/lift according 1.
- 2.2 Remove head carrier spring (37)
- 2.3 Turn head support fixation lever acc. fig.3-A
- 2.4 Position pin of switching lever (20) to max. left point, see fig.3-detail I
- 2.5 Release plastic snapper (fig.3-H) and take out head support assembly !!! TAKE CARE NOT TO BENT THE HEAD CARRIER !!!
- 2.6 Press plastic fixation (fig.3-detail E,F) and take out magnetic head
- 2.7 Push pressure spring (27) acc. fig.3-D and move it out
- 2.8 Release plastic hooks (fig.3-B,C) to pull pinch rollers (45+68) out
- 2.9 Take off anchor spring (13), rotate anchor (2) 90°degrees to take it out (fig.4-A,B,C)
- 3. Capstan motor (32)

Remove belt (30) from driving wheel, desolder connection cables, unscrew the two torx screws at the bottom of chassis and take out capstan motor

!!! TAKE CARE OF CORRECT AND UNTWISTED MOUNTING OF THE BELT !!!

- 4. Servo motor (14)
 - Desolder connection cables and lever up motor out of its clamps (fig.2-F,G)
- 5. Clutch assy (57-59)
- 5.1 Remove servo motor acc. 4.
- 5.2 Cut disk (65) and remove it (must be renewed)
- 5.3 Pull clutch from the axle (fig.2-H,l)
- 6. Anchor holder (8) and magnet double (1)
- 6.1 Desolder cables of magnet
- 6.2 Swivel anchor holder counter-clockwise and press it off applying force near the pivoting point
- 6.3 Release plastic clamps of magnet holder and press magnet out from top of the chassis (fig.4-E)
- 7. Driving belt (30), flywheels (23) and bearings (70)
- 7.1 Release pivot plate (35) by turning the plastic hooks acc.fig.5-A,B
- 7.2 Remove pivot plate and driving belt
- 7.3 Pull out flywheels
- 7.4 Press bearings out of plastic housings from top side of chassis plate, use a plastic tool with diarneter 4mm in order not to damage the housings
- 7.5 After mounting new flywheels, bearings or pivot plate you have to test wow and flutter because every deck is adjusted individual for these components. If the values of wow and flutter are out of specificator, you have to exchange complete deck!
- 7.6 Degrease capstan axis after re-mounting the flywheels
- 8. Connection wheel (5), take up wheels (6), backtension springs (69)
- 8.1 Take out carrier/lift acc. 1.
- 8.2 Lever up connection wheel from axle (must be renewed)
- 8.3 Cut disks (65) and remove them (must be renewed)
- 8.4 Unclamp and pull up wheels with puller (fig.2-A,B)
- 8.5 Take out backtension springs
- 9. ME/CR Switch (60).
- 9.1 Desolder connection cables
- 9.2 Push with a small pin through the hole at the bottom of the chassis, directly under the switch

10.1 10.2	Desolder connection cables Lever up switch or push with a small pin through the hole at the bottom of the chassis, directly under the switch if servo motor and clutch were removed previously
11. 11.1 11.2 11.3 11.4 11.5	Control pins (16), gear lever (17), play reverse lever (18) Remove flywheels acc. 7 Remove play reverse lever Put control pins into mounting position acc. fig.6-D,E Take out gear lever Pull out control pins
12. 12.1 12.2 12.3 12.4 12.5	Switching lever (20), swivel wheel assembly (7,15,43) Release spring (53) from black plastic pin Turn switching lever acc. fig.7-A Lever up switching lever from axle Remove connection wheel acc. 8 Take out swivel wheel assembly
13. 13.1 13.2 13.3 13.4	Switching pin (54), transport rod (25), latch (21) Remove ON/OFF Switch acc. 10 Lever up switching pin from axle Remove switching lever acc. 12 Move out transport rod and latch

ON/OFF Switch (26)

TOOLS REQUIRED

10.

4822 397 30071
4822 397 30069
4822 395 30054
4822 395 60039

ADJUSTMENTS

TORQUE OF REELS (FRICTION)

Adjust potmeter pos. 3409 until friction test cassette shows 9,5 +/- 1,5 mNm in NOR direction (after 2 minutes) and 8,5 +/- 1,5 mNm in REV direction. Backtension must be 0,3 to 0,7 mNm. If values deviate check lubrication, clutch, take up wheels and backtension springs.

WOW AND FLUTTER, TAPE SPEED

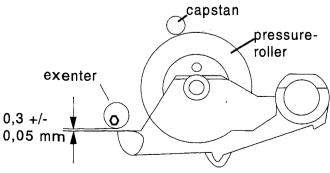
Connect wow and flutter meter to loudspeaker outputs and play the 3150 Hz signal track of test cassette SBC 420. Value should be max. 0,5% (unweighted).

If value deviates check motors, pressure rollers, flywheels, belt, pulley and backtension springs.

Tape speed can be adjusted with motor potentiometer A (see fig.8). Use a screwdriver with insulated shaft!

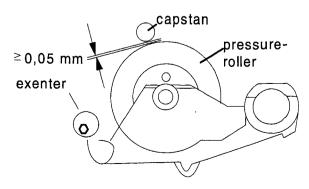
PRESSURE ROLLER / CAPSTAN (see figures below)

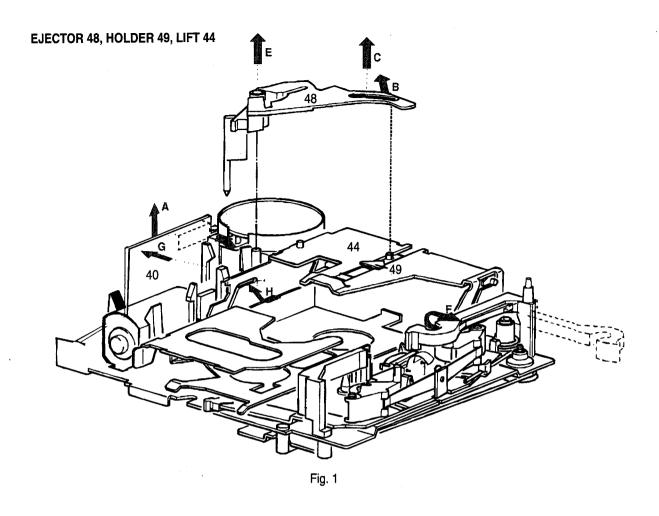
Adjust clearance play-NOR position between pressure roller and stop head carrier



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Adjust clearance FFW position between pressure roller and capstan





CLUTCH 59, SWITCH 60, GEAR WHEEL 5, CARRIER 6

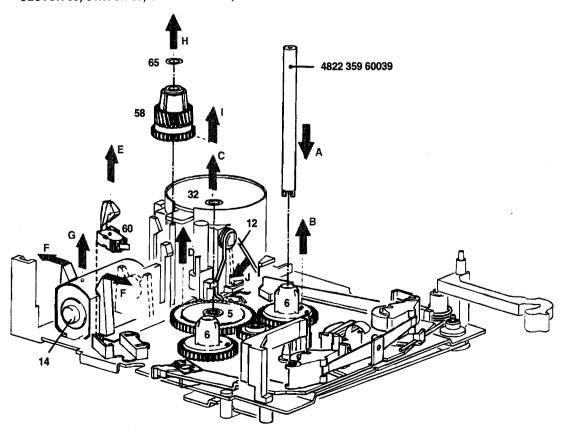
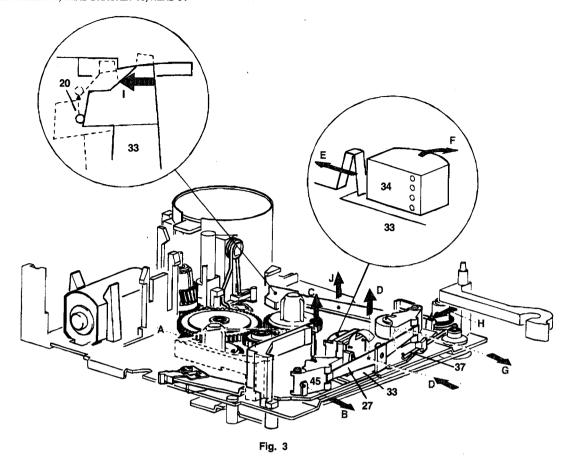


Fig. 2

PRESSURE ROLLER 45, HEAD BRACKET 33, HEAD 34



ANCHOR 3/5, RELAY 1

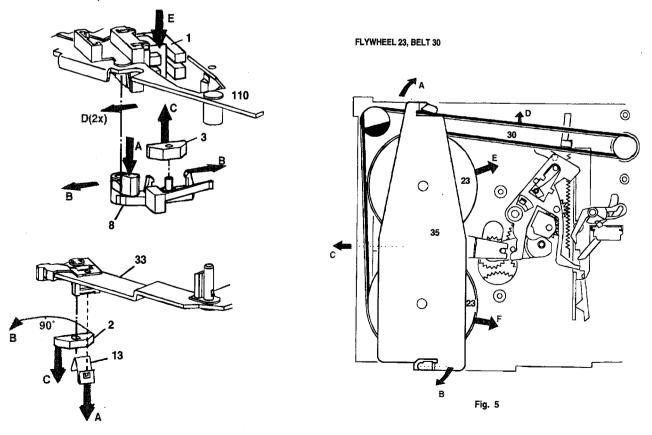


Fig. 4

SCA-4.4

SEGMENT 16, BRACKET 17, BEARING 70

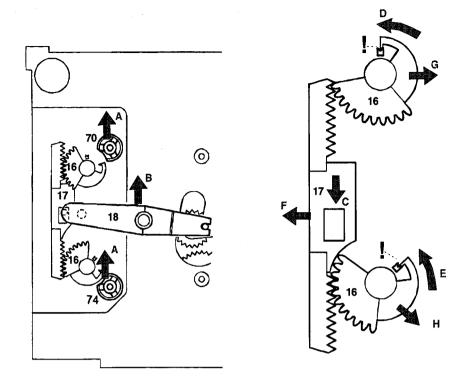


Fig. 6

SWITCH 26, SWIVEL GEAR 7, LEVER 20

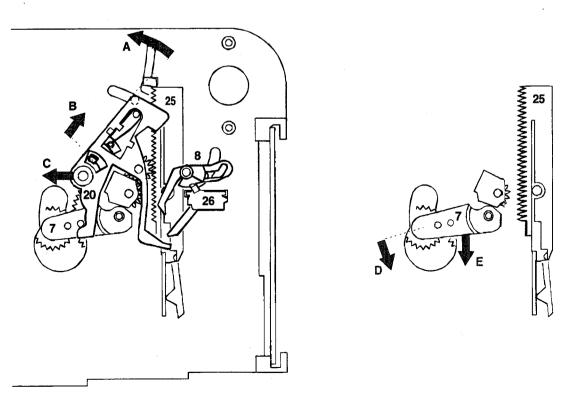
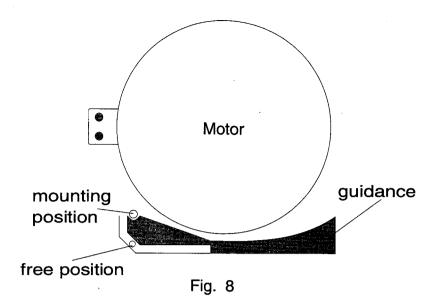
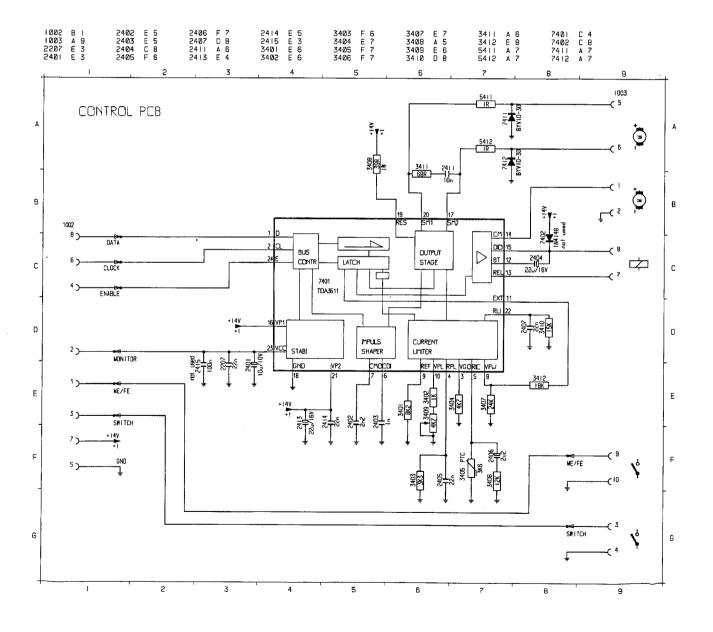


Fig. 7





MEASUREMENTS ON CONTROL PCB

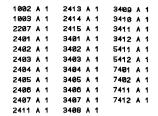
ME/FE: 0,0 V (FE) / 5,0 V (ME/CR) ON/OFF: 0,0 V (ON) / 5,0 V (OFF)

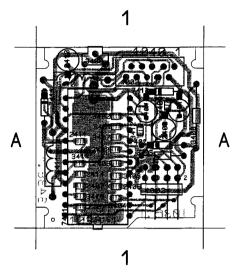
Pos. 7401 TDA 3611

- 1: 5.0 V
- 2: 5,0 V
- 3: 0,7 V / 0,0 V (Sb)
- 4: 0,8 V (PN) / 0,9 V (PR) / 0,3 V (W) / 0,0 V (Sb)
- 5: 0,8 V (PN) / 1,0 V (PR) / 0,4 V (W) / 0,0 V (Sb) / 0,1 V (TA)
- 6: 0,8 V (PN) / 1,0 V (PR) / 0,4 V (W) / 0,0 V (Sb) / 0,1 V (TA)
- 7: 0,7 V (P) / 1,8 V (W) / 0,0 V (Sb) / 0,6 V (TA)
- 8: 3,4 V / 0,0 V (Sb)
- 9: 1,2 V / 0,0 V (Sb)
- 10: 0,5 V / 0,0 V (Sb)
- 11: 3,4 V / 0,0 V (Sb)
- 12: 12.0 V
- 13: 0,5 V / 12,0 V (Sb)
- 14: 0,0 V / 11,5 V (P)
- 15: 11,5 V / 12,0 V (Sb)
- 16: 12,0 V
- 17: 0,1 V (PN) / 2,4 V (PR) / 0,0 V (WN) / 12,0 V (WR) / 0,0 V (Sb)
- 18: GND
- 19: 12,0 V / 8,5 V (P)
- 20: 2,4 V (PN) / 0,1 V (PR) / 12,0 V (WN) / 0,0 V (WR) / 0,0 V (Sb)
- 21: 12,0 V
- 22: 3,6 V (P) / 1,3 V (W) / 0,0 V (Sb)
- 23: 5,0 V
- 24: 5,0 V

All values measured DC - GND

- (P) = Play mode both directions
- (W) = Wind mode both directions
- (PN) = Play NOR direction
- (PR) = Play REV direction
- (WN) = Wind NOR direction
- (WR) = Wind REV direction
- (Sb) = Standby
- (TA) = Traffic anouncement





CONNECTORS

Control Connector Head Connector Deck Connector (Pos.1003) (View onto Radio-PCB) (View onto Radio-PCB) (View onto Control-PCB) MONITOR 2 1 ME/FE (optional) 1 COMMON GND 2 LEFT NOR **ENABLE 4** 3 ON/OFF Switch 3 RIGHT NOR CLOCK 6 5 GND \bigcirc \bigcirc 4 RIGHT REV 1: Capstan + DATA 8 5 LEFT REV 2: Capstan -3: ON/OFF Switch 4: GND 5: Servomotor +

2

7: Magnet -

8: Magnet +

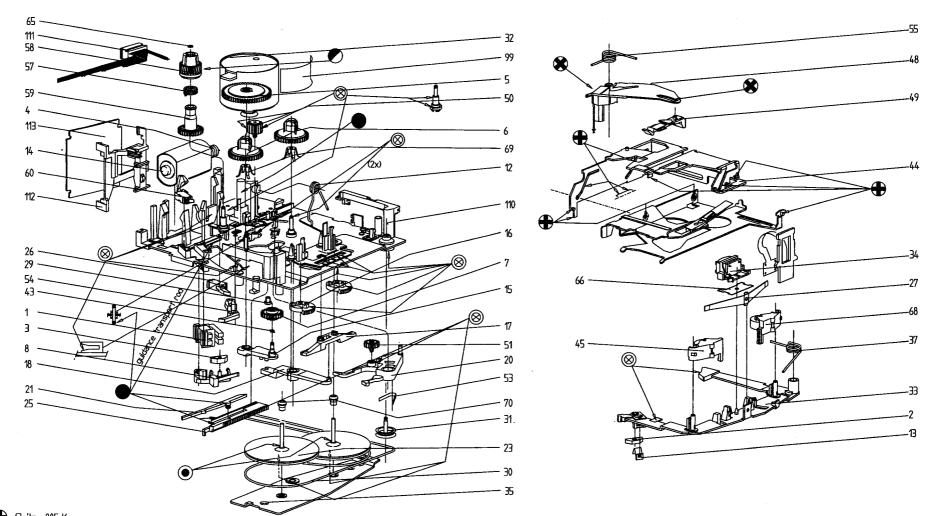
10: GND

6: Servomotor-

9: ME/FE Swich

Front of Radio V

SCA-4.4



Gleitmo 805 K

Mobil SHC 634

Contact Oel
PDP 65

Topas L30

Gleitmo 585 K

SM30 TF

MECHANICAL PARTS

ELECTRICAL PARTS

1 2 3 5 6	4822 281 11051 4822 404 21083 4822 404 21084 4822 522 32868 4822 528 10776	DOUBLE ANCHOR ON SUPPORT 33 ANCHOR IN HOLDER 8 WHEEL IDLER CARRIER	2207 5322 122 32654 22NF10%X7R 63° 2401 4822 124 22748 10UF 10V 2402 4822 122 33127 2,2NF10%X7R 63° 2403 4822 122 33178 1NF 20% X7R 50V 2404 4822 124 23279 22UF20% 16V	2207 5322 122 32654 2401 4822 124 22748 2402 4822 122 33127 2403 4822 122 33178 2404 4822 124 23279	3V 33V V
7 8 1 14 16	4822 528 70658 4822 404 21087 4822 492 70556 4822 361 30297 4822 522 32869	ASSY FOR ANCHOR 2 FOR ANCHOR 2 SERVO ASSY NORMAL/REVERSE	2405 5322 122 32654 22NF10%X7R 63Y 2406 4822 124 41013 2,2UF 25V 2407 5322 122 32654 22NF10%X7R 63Y 2411 4822 122 33177 10NF 20% X7R 50Y 2413 4822 124 23279 22UF20% 16V	2405 5322 122 32654 2406 4822 124 41013 2407 5322 122 32654 2411 4822 122 33177 2413 4822 124 23279	3V 3V 60V '
			2414 5322 122 32654 22NF10%X7R 63Y 3401 4822 051 20822 8K20 5% 0,1W 3402 4822 051 20102 1K00 5% 0,1W 3403 4822 051 20332 3K30 5% 0,1W 3404 4822 051 20472 4K70 5% 0,1W		
29 30 31 32 33	4822 502 12548 4822 358 31053 4822 528 81144 4822 361 30294 4822 404 21088	FIX MOTOR 32 BELT, DRIVING DIVERTING BELT CAPSTAN FOR HEAD,PRES.ROLLR	3405 4822 116 40241 3K6 PTC 3406 4822 051 20123 12K00 5% 0,1W 3407 4822 051 20243 24K00 5% 0,1W 3408 4822 053 10399 39R00 5% 1W 3409 5322 101 11014 5K POTMETER	3405 4822 116 40241 3406 4822 051 20123 3407 4822 051 20243 3408 4822 053 10399 3409 5322 101 11014	W W W
34 44 45 48 49	4822 249 30157 4822 466 82631 4822 528 81377 4822 404 21091 4822 404 21092	WITH FLEXPRINT FOR CASSETTE REVERSE EJECT HOLDING CASSETTE	3410 4822 051 20153 15K00 5% 0,1W 3411 4822 051 20689 68R00 5% 0,1W 3412 4822 051 20183 18K00 5% 0,1W 5411 4822 050 21008 1R00 1% 0,6W 5412 4822 050 21008 1R00 1% 0,6W	3410 4822 051 20153 3411 4822 051 20689 3412 4822 051 20183 5411 4822 050 21008 5412 4822 050 21008	W W W N
50 59 60 65 68	4822 522 32871 4822 522 10435 4822 277 11216 4822 532 52348 4822 528 81449	COUPLING ASSY ME/CR FOR CARRIER CLUTCH NORMAL	7401 4822 209 32207 TDA3611 7411 4822 130 32911 BYV10-30 7412 4822 130 32911 BYV10-30 AIDS AND TOOLS	7401 4822 209 32207 7411 4822 130 32911 7412 4822 130 32911 AIDS AND TOOLS	
69 70 111 112 113	4822 492 70926 4822 520 30539 4822 321 61954 4822 256 92048 4822 214 52077	UNDER CARRIER FOR FLYWHEEL CABLE, CONNECT FOR PCB PCB KOMPL.	100 4822 390 10107 ISOFLEX PDP6 5 101 4822 390 20128 TOPAS L30 103 4822 390 10123 MOBIL OIL SHC 63 104 4822 390 20027 GLEITMO 805K 105 4822 390 20128 L30 TF 107 4822 390 20139 GLEITMO 585K	100 4822 390 10107 101 4822 390 20128 103 4822 390 10123 104 4822 390 20027 105 4822 390 20128 107 4822 390 20139	634